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Dated

*P. Mahoney*  
22 May 2003

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1/77

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P01/7700 0.00-0217211.2

The Patent Office

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# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

1. Your reference

PF-70102 P1

2. Patent application number

(The Patent Office will fill in this part)

24 JUL 2002

0217211.2

3. Full name, address and postcode of the or of each applicant (underline all surnames)

SYNGENTA PARTICIPATIONS AG  
Intellectual Property Department  
Schwarzwaldallee 215  
4058 Basel, SWITZERLAND

06029555001

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

ORGANIC COMPOUNDS

5. Name of your agent (if you have one)

Michael James RICKS

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Syngenta Limited  
Intellectual Property Department  
Jealott's Hill Research Centre  
PO Box 3538, BRACKNELL  
Berkshire, RG42 6YA, UNITED KINGDOM

Patents ADP number (if you know it)

01282433003

06029571001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number  
(if you know it)

Date of filing  
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing  
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- any applicant named in part 3 is not an inventor, or
- there is an inventor who is not named as an applicant, or
- any named applicant is a corporate body.

See note (4D)

# Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description

52

Claim(s)

10

Abstract

-

Drawing(s)

RM

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11.

I/We request the grant of a patent on the basis of this application.

SYNGENTA PARTICIPATIONS AG

Signature

Authorised Signatory

Date 24/7/02.

12. Name and daytime telephone number of person to contact in the United Kingdom

Joanna Carmen CHANDLER 01344 414079  
Julie Anne BOWDICH 01344 414365

## Warning

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

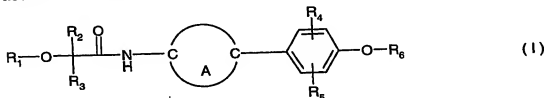
## Notes

- If you need help to fill in this form or you have any questions, please contact the Patent Office on 08459 500505.
- Write your answers in capital letters using black ink or you may type them.
- If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
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The present invention relates to novel N-bisaryl- and N-aryl-cycloalkylidenyl- $\alpha$ -hydroxy- and  $\alpha$ -alkoxy acetic acid amides of formula I below. It relates to the preparation of those substances and to agrochemical compositions comprising at least one of those compounds as active ingredient. The invention relates also to the preparation of the said compositions and to the use of the compounds or of the compositions in controlling or preventing the infestation of plants by phytopathogenic microorganisms, especially fungi.

The invention relates to N-bisaryl- and N-aryl-cycloalkylidenyl- $\alpha$ -hydroxy- and  $\alpha$ -alkoxy acetic acid amides of the general formula I



including the optical isomers thereof and mixtures of such isomers,

wherein

R<sub>1</sub> is hydrogen, C<sub>1</sub>-C<sub>12</sub>alkyl; C<sub>2</sub>-C<sub>12</sub>alkenyl; C<sub>2</sub>-C<sub>12</sub>alkynyl; C<sub>1</sub>-C<sub>12</sub>haloalkyl;

R<sub>2</sub> is hydrogen; optionally substituted alkyl; optionally substituted alkenyl or optionally substituted alkynyl;

R<sub>3</sub> is optionally substituted aryl or optionally substituted heteroaryl;

A is an optionally substituted saturated or unsaturated C<sub>3</sub>-C<sub>8</sub>-cycloalkylidene, optionally substituted phenylidene or optionally substituted saturated or unsaturated heterocyclidene bridge,

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen or an organic radical, and

R<sub>6</sub> is hydrogen; tri-C<sub>1</sub>-C<sub>4</sub>alkyl-silyl; di-C<sub>1</sub>-C<sub>4</sub>alkyl-phenylsilyl; C<sub>1</sub>-C<sub>4</sub>alkyl-diphenylsilyl; tri-phenylsilyl; optionally substituted alkyl; optionally substituted alkenyl or optionally substituted alkynyl.

In the above definition aryl includes aromatic hydrocarbon rings like phenyl, naphthyl, anthracenyl, phenanthrenyl, with phenyl being preferred.

In the above definitions "halogen" includes fluorine, chlorine, bromine and iodine. Likewise,

the prefix "halo" includes fluorine, chlorine, bromine and iodine.

The alkyl, alkenyl and alkynyl radicals may be straight-chain or branched. This applies also to the alkyl, alkenyl or alkynyl parts of other alkyl-, alkenyl- or alkynyl-containing groups.

~~Depending upon the number of carbon atoms mentioned, alkyl on its own or as part of~~  
another substituent is to be understood as being, for example, methyl, ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl and the isomers thereof, for example isopropyl, isobutyl, tert-butyl or sec-butyl, isopentyl or tert-pentyl.

Depending upon the number of carbon atoms mentioned, alkenyl as a group or as a structural element of other groups is to be understood as being, for example, ethenyl, allyl, 1-propenyl, buten-2-yl, buten-3-yl, penten-1-yl, penten-3-yl, hexen-1-yl, 4-methyl-3-pentenyl or 4-methyl-3-hexenyl.

Alkynyl as a group or as a structural element of other groups is, for example, ethynyl, propyn-1-yl, propyn-2-yl, butyn-1-yl, butyn-2-yl, 1-methyl-2-butylnyl, hexyn-1-yl, 1-ethyl-2-butylnyl or octyn-1-yl.

Optionally substituted alkyl, alkenyl or alkynyl groups may carry one or more substituents selected from halogen, alkyl, alkoxy, alkylthio, cycloalkyl, phenyl, nitro, cyano, hydroxy, mercapto, alkylcarbonyl or alkoxy carbonyl. Preferably, the number of substituents is not more than three with the exception of halogen, where the alkyl groups may be perhalogenated.

Heteroaryl stands for aromatic ring systems comprising mono-, bi- or tricyclic systems being formed by 1 or 2 five- to six-membered condensed rings wherein at least one oxygen, nitrogen or sulfur atom is present as a ring member. Typically heteroaryl comprises 1 to 4 identical or different heteroatoms selected from nitrogen, oxygen and sulfur, wherein the number of oxygen and sulfur atoms normally does not exceed one. Examples are furyl, thienyl, pyrrolyl, imidazolyl, pyrazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, triazolyl, tetrazolyl, pyridyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, tetrazinyl, indolyl, benzothienophenyl, benzofuranyl, benzimidazolyl, indazolyl, benzotriazolyl, benzothiazolyl, benzoxazolyl, quinolinyl, isoquinolinyl, phthalazinyl, quinoxalinyl, quinazolinyl, cinnolinyl and naphthyridinyl.

The above aryl and heteroaryl groups may carry one or more identical or different substituents. Normally not more than three substituents are present at the same time. Examples of substituents of aryl or heteroaryl groups are: alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl-

alkyl, phenyl and phenyl-alkyl, it being possible in turn for all of the preceding groups to carry one or more identical or different halogen atoms; alkoxy; alkenyloxy; alkynyloxy; alkoxyalkyl; haloalkoxy, alkylthio; haloalkylthio; alkylsulfonyl; formyl; alkanoyl; hydroxy; halogen; cyano; nitro; amino; alkylamino; dialkylamino; carboxyl; alkoxy-carbonyl; alkenyloxy-carbonyl; alkynyloxy-carbonyl.

The organic radical in  $R_4$  and  $R_5$  indicates that practically every substituent used in the art of organic chemistry may be placed in the indicated position at the phenylene bridge member. Preferred are however the more frequently used radicals like  $C_1-C_6$ alkyl;  $C_2-C_6$ alkenyl;  $C_2-C_6$ alkynyl;  $C_3-C_6$ cycloalkyl;  $C_3-C_6$ cycloalkyl- $C_1-C_4$ alkyl;  $C_1-C_6$ alkylthio;  $C_1-C_6$ alkylsulfonyl;  $C_1-C_6$ alkoxy;  $C_3-C_6$ alkenyloxy;  $C_3-C_6$ alkynyloxy;  $C_3-C_6$ cycloalkoxy;  $C_1-C_6$ alkoxy- $C_1-C_4$ alkyl;  $C_1-C_6$ alkoxy-carbonyl;  $C_3-C_6$ alkenyloxy-carbonyl;  $C_3-C_6$ alkynyloxy-carbonyl;  $C_1-C_6$ alkanoyl;  $C_1-C_6$ dialkylamino;  $C_1-C_6$ alkylamino; wherein in each of the above radicals the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino.

Cycloalkyl is, depending upon the number of carbon atoms mentioned, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl or cyclooctyl.

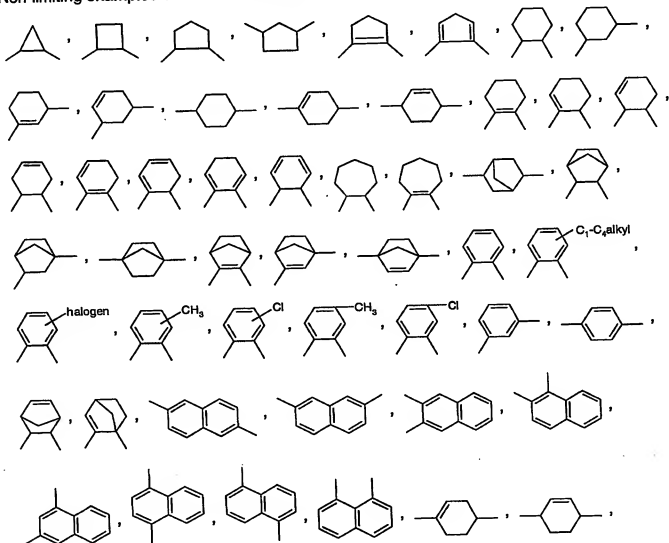
A haloalkyl group may contain one or more (identical or different) halogen atoms, and for example may stand for  $CHCl_2$ ,  $CH_2F$ ,  $CCl_3$ ,  $CH_2Cl$ ,  $CHF_2$ ,  $CF_3$ ,  $CH_2CH_2Br$ ,  $C_2Cl_6$ ,  $C_2F_6$ ,  $CH_2Br$ ,  $CHClBr$ ,  $CF_3CH_2$ , etc..

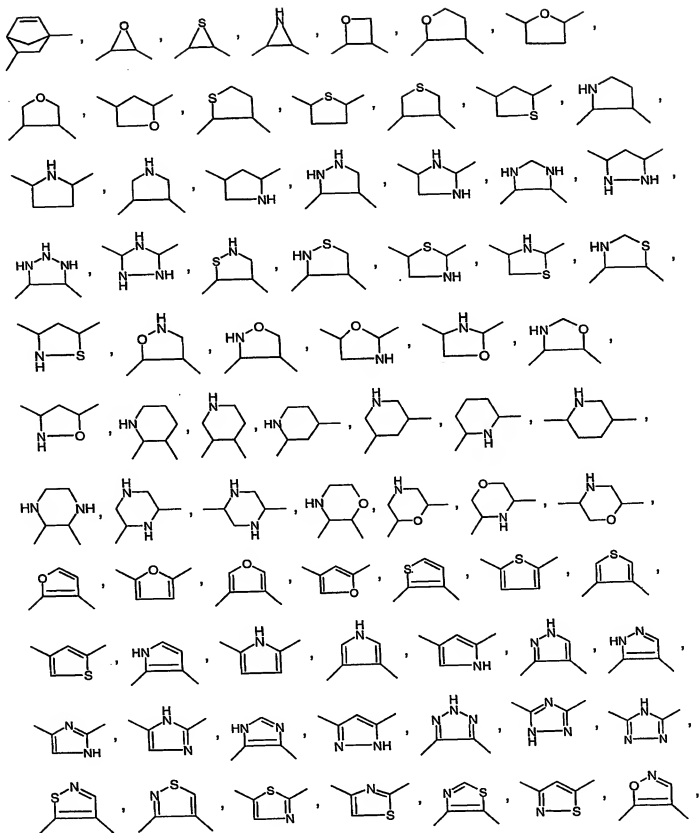
The bridge member A stands for a bivalent cyclic group (optionally substituted saturated or unsaturated  $C_3-C_6$ -cycloalkylidene, optionally substituted phenylidene or optionally substituted saturated or unsaturated heterocyclidene) which comprises at least two carbon atoms as ring members which function as the linking ring members to the remainder of the molecule. The cyclic bivalent bridge bonded via two carbon atoms is either a hydrocarbon ring or a heterocyclic ring containing one to three heteroatoms selected from nitrogen, oxygen or sulfur, and which ring member may be of saturated, unsaturated or aromatic character, and may optionally carry one to three substituents being independently of each other selected from halogen,  $C_1-C_6$ alkyl,  $C_1-C_6$ alkoxy,  $C_1-C_6$ haloalkyl,  $C_1-C_6$ alkoxy-carbonyl, nitro or cyano. Typical examples for the bivalent cyclic bridge are cyclopropylidene, cyclopentylidene, cyclopentenylidene, cyclohexylidene, cyclohexenylidene, cyclohexadienylidene, bicyclo-

hexylidene, cycloheptanylidene, bicycloheptylidene, norbornanylidene, norbornenyldiene,  
phenylidene, naphthylidene, tetrahydrofuranlydene, tetrahydrothienylidene, pyrrolidinyl-  
idene, pyrazolidinylidene, triazolinylidene, thiazolidinylidene, isothiazolidinylidene, oxazo-  
lidinylidene, isoxazolidinylidene, piperidinylidene, piperazinylidene, morpholinylidene,  
furanlydene, thienylidene, pyrrolydene, pyrazolylidene, triazolylidene, thiazolylidene,  
oxazolylidene, isothiazolylidene, isoxazolylidene, oxadiazolylidene, thiadiazolylidene,  
pyridinylidene, triazinylidene or pyrimidinylidene.

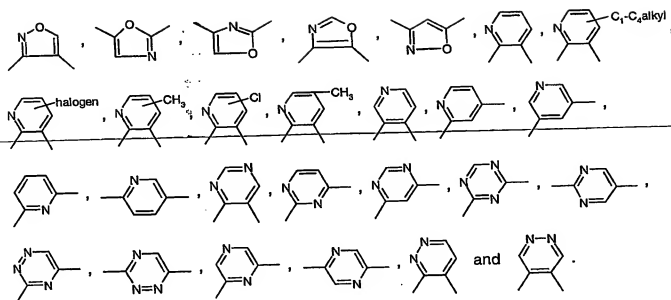
Preferred members of this group are those wherein the two linking carbon atoms have vicinal positions in the cyclic bridge member. However, also remarkable fungicidal activity is associated with other carbon-bonded cyclic bridge members A.

**Non-limiting examples of A are the following:**

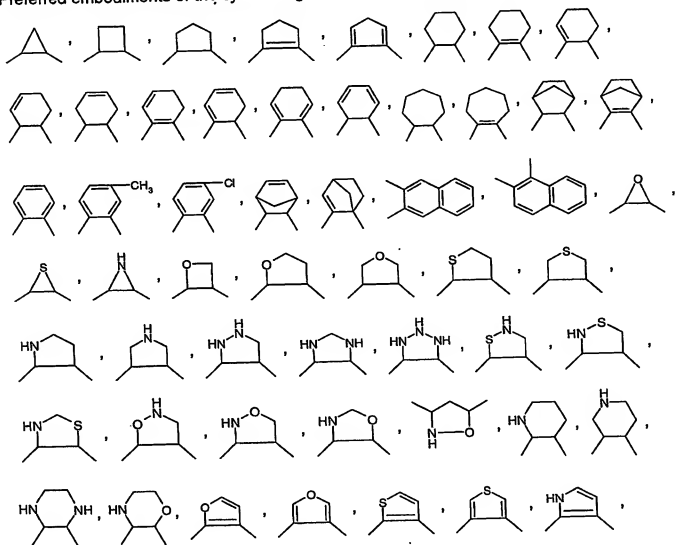


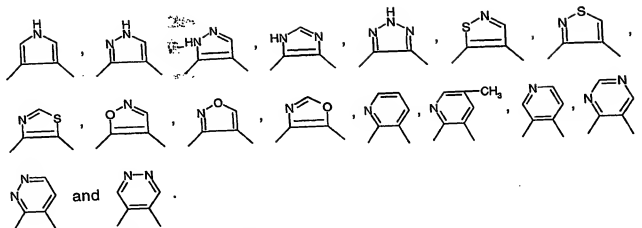




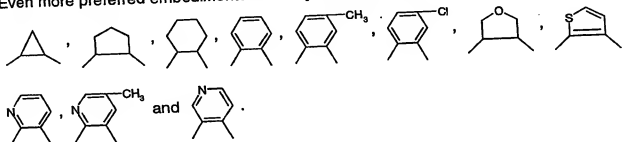


Preferred embodiments of the cyclic bridge A are the vicinally bonded ones:





Even more preferred embodiments of the cyclic bridge A are:



Within the definition of  $R_6$  the optionally substituted alkyl, optionally substituted alkenyl or optionally substituted alkynyl, encompass  $C_1$ - $C_{10}$ alkyl;  $C_3$ - $C_{10}$ alkenyl;  $C_3$ - $C_{10}$ alkynyl;  $C_1$ - $C_{10}$ haloalkyl;  $C_3$ - $C_{10}$ haloalkenyl;  $C_3$ - $C_{10}$ haloalkynyl; benzyl optionally substituted by  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ alkynyl,  $C_3$ - $C_6$ cycloalkyl,  $C_3$ - $C_6$ cycloalkyl- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkylthio,  $C_1$ - $C_6$ alkylsulfonyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_6$ alkenylloxy,  $C_3$ - $C_6$ alkynylloxy,  $C_3$ - $C_6$ cycloalkoxy,  $C_1$ - $C_6$ alkoxy- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkenylloxy- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkynylloxy- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkoxycarbonyl,  $C_3$ - $C_6$ alkenylloxycarbonyl,  $C_3$ - $C_6$ alkynylloxycarbonyl,  $C_1$ - $C_6$ alkanoyl,  $C_1$ - $C_6$ dialkylamino,  $C_1$ - $C_6$ alkylamino (wherein the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated); carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino;

a group  $-CR_7R_8-C\equiv C-B$  wherein  $R_7$  and  $R_8$  are independently hydrogen or  $C_1$ - $C_4$ alkyl; and B is either  $C_1$ - $C_6$ alkyl or  $C_3$ - $C_6$ cycloalkyl; phenyl or phenyl substituted by  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ alkynyl,  $C_3$ - $C_6$ cycloalkyl,  $C_3$ - $C_6$ cycloalkyl- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkylthio,  $C_1$ - $C_6$ alkylsulfonyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_6$ alkenylloxy,  $C_3$ - $C_6$ alkynylloxy,  $C_3$ - $C_6$ cycloalkoxy,  $C_1$ - $C_6$ alkoxy- $C_1$ - $C_4$ alkyl,  $C_1$ - $C_6$ alkoxycarbonyl,  $C_3$ - $C_6$ alkenylloxycarbonyl,  $C_3$ - $C_6$ alkynylloxycarbonyl,  $C_1$ - $C_6$ alkanoyl,  $C_1$ - $C_6$ dialkylamino,  $C_1$ - $C_6$ alkylamino (wherein the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated); carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or

a group  $-\text{CR}_7\text{R}_8-\text{CR}_9\text{R}_{10}-\text{X}-\text{B}$  wherein  $\text{R}_7$ ,  $\text{R}_8$ ,  $\text{R}_9$  and  $\text{R}_{10}$  are independently hydrogen or  $\text{C}_1-\text{C}_4$ alkyl;  $\text{X}$  is  $-\text{O}-$ ,  $-\text{S}-$  or  $-\text{NR}_{13}-$  where  $\text{R}_{13}$  is hydrogen or  $\text{C}_1-\text{C}_4$ alkyl; and  $\text{B}$  is either  $\text{C}_3-\text{C}_6$ cycloalkyl; phenyl or phenyl substituted by  $\text{C}_1-\text{C}_6$ alkyl,  $\text{C}_2-\text{C}_6$ alkenyl,  $\text{C}_2-\text{C}_6$ alkynyl,  $\text{C}_3-\text{C}_6$ cycloalkyl,  $\text{C}_3-\text{C}_6$ cycloalkyl- $\text{C}_1-\text{C}_4$ alkyl,  $\text{C}_1-\text{C}_6$ alkylthio,  $\text{C}_1-\text{C}_6$ alkylsulfonyl,  $\text{C}_1-\text{C}_6$ alkoxy,  $\text{C}_3-\text{C}_6$ alkenyloxy,  $\text{C}_3-\text{C}_6$ alkynyloxy,  $\text{C}_3-\text{C}_6$ cycloalkoxy,  $\text{C}_1-\text{C}_6$ alkoxy- $\text{C}_1-\text{C}_4$ alkyl,  $\text{C}_1-\text{C}_6$ alkoxy-carbonyl,  $\text{C}_3-\text{C}_6$ alkenyloxy-carbonyl,  $\text{C}_3-\text{C}_6$ alkynyloxy-carbonyl,  $\text{C}_1-\text{C}_6$ alkanoyl,  $\text{C}_1-\text{C}_6$ dialkylamino,  $\text{C}_1-\text{C}_6$ alkylamino (where all these alkyl, alkenyl, alkynyl or cycloalkyl containing groups may be partially or fully halogenated); carboxyl; formyl; halogen; nitro; cyano; hydroxy; or amino.

The presence of at least one asymmetric carbon atom and/or at least one asymmetric oxidized sulfur atom in the compounds of formula I means that the compounds may occur in optically isomeric forms. As a result of the presence of a possible aliphatic  $\text{C}=\text{C}$  double bond, geometric isomerism may also occur. Formula I is intended to include all those possible isomeric forms and mixtures thereof.

Preferred subgroups of compounds of formula I are those wherein

$\text{R}_1$  is hydrogen;  $\text{C}_1-\text{C}_{12}$ alkyl;  $\text{C}_2-\text{C}_{12}$ alkenyl;  $\text{C}_2-\text{C}_{12}$ alkynyl or  $\text{C}_1-\text{C}_{12}$ haloalkyl; or

$\text{R}_1$  is hydrogen;  $\text{C}_1-\text{C}_{12}$ alkyl,  $\text{C}_2-\text{C}_{12}$ alkenyl; or  $\text{C}_2-\text{C}_{12}$ alkynyl; or

$\text{R}_1$  is hydrogen;  $\text{C}_1-\text{C}_4$ alkyl or  $\text{C}_2-\text{C}_5$ alkynyl; or

$\text{R}_1$  is hydrogen or  $\text{C}_2-\text{C}_5$ alkynyl; or

$\text{R}_1$  is hydrogen or propargyl; or

$\text{R}_1$  is propargyl; or

$\text{R}_2$  is hydrogen;  $\text{C}_1-\text{C}_4$ alkyl;  $\text{C}_1-\text{C}_4$ haloalkyl;  $\text{C}_2-\text{C}_5$ alkenyl or  $\text{C}_2-\text{C}_5$ alkynyl; or

$\text{R}_2$  is hydrogen or  $\text{C}_1-\text{C}_4$ alkyl; or

$\text{R}_2$  is hydrogen; or

$\text{R}_3$  is aryl or heteroaryl, each optionally substituted with substituents selected from the group comprising alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl-alkyl, phenyl and phenylalkyl, where all these groups may be substituted with one or more halogen atoms; alkoxy; alkenyloxy; alkynyloxy; alkoxy-alkyl; haloalkyl; alkylthio; haloalkylthio; alkylsulfonyl; formyl; alkanoyl; hydroxy; cyano; nitro; amino; alkylamino; dialkylamino; carboxyl; alkoxy-carbonyl; alkenyloxy-carbonyl and alkynyloxy-carbonyl; or

$\text{R}_3$  is phenyl, naphthyl, biphenyl, thienyl or pyridyl, each optionally substituted by one to three substituents selected from the group comprising  $\text{C}_1-\text{C}_6$ alkyl;  $\text{C}_2-\text{C}_6$ alkenyl;  $\text{C}_2-\text{C}_6$ alkynyl; or





C<sub>3</sub>-C<sub>8</sub>alkenyloxy, C<sub>3</sub>-C<sub>8</sub>alkynyloxy, C<sub>3</sub>-C<sub>8</sub>cycloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkoxy-carbonyl, C<sub>3</sub>-C<sub>8</sub>alkenyloxy-carbonyl, C<sub>3</sub>-C<sub>8</sub>alkynyloxy-carbonyl, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>1</sub>-C<sub>8</sub>dialkylamino, C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or

R<sub>6</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyl; C<sub>3</sub>-C<sub>8</sub>alkynyl; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkynyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>1</sub>-C<sub>8</sub>haloalkyl, halogen, nitro or cyano; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>1</sub>-C<sub>8</sub>haloalkyl, halogen, nitro or cyano; or a group -CH<sub>2</sub>-CH<sub>2</sub>-O-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>1</sub>-C<sub>8</sub>haloalkyl, halogen, nitro or cyano; or

R<sub>6</sub> is C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyl; C<sub>3</sub>-C<sub>8</sub>alkynyl; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkynyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>haloalkyl or halogen; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>4</sub>alkyl or halogen; or a group -CH<sub>2</sub>-CH<sub>2</sub>-O-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl or halogen; or

R<sub>6</sub> is C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyl; C<sub>3</sub>-C<sub>8</sub>alkynyl; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkynyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>haloalkyl or halogen; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>4</sub>alkyl or halogen; or a group -CH<sub>2</sub>-CH<sub>2</sub>-O-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl or halogen; or

R<sub>6</sub> is C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyl; C<sub>3</sub>-C<sub>8</sub>alkynyl; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl or phenyl optionally substituted with C<sub>1</sub>-C<sub>4</sub>alkyl or halogen; or

R<sub>6</sub> is selected from methyl, ethyl, propyl, allyl, butenyl, propargyl, butynyl, pentynyl, cyclopropylpropargyl, phenylpropargyl, bromophenylpropargyl and chlorophenylpropargyl.

R<sub>6</sub> is selected from methyl, ethyl, propargyl, 3-butenyl and 3-pentynyl.

Further preferred subgroups of the compounds of formula I are those wherein

- 1) R<sub>1</sub> is hydrogen; C<sub>1</sub>-C<sub>12</sub>alkyl; C<sub>2</sub>-C<sub>12</sub>alkenyl; C<sub>2</sub>-C<sub>12</sub>alkynyl or C<sub>1</sub>-C<sub>12</sub>haloalkyl; and R<sub>2</sub> is hydrogen and R<sub>3</sub> is phenyl; naphthyl or heteroaryl formed by 1 or 2 five- or six-membered rings containing 1 to 4 identical or different heteroatoms selected from oxygen, nitrogen or sulfur, wherein each aromatic rings is optionally mono- or poly-substituted with C<sub>1</sub>-C<sub>8</sub>alkyl,

$C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkyloxy,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated, or with halogen, nitro, cyano, hydroxy or amino; and A is optionally substituted saturated or unsaturated carbocycle or heterocycle linked to the remainder of the molecule by vicinal ring member carbon atoms; and  $R_4$  is hydrogen;  $C_1-C_8$ alkyl;  $C_2-C_8$ alkenyl;  $C_2-C_8$ alkynyl;  $C_3-C_8$ cycloalkyl;  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl;  $C_1-C_8$ alkylthio;  $C_1-C_8$ alkylsulfonyl;  $C_1-C_8$ alkoxy;  $C_3-C_8$ alkenyloxy;  $C_3-C_8$ alkynyloxy;  $C_3-C_8$ cycloalkoxy;  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl;  $C_1-C_8$ alkoxycarbonyl;  $C_3-C_8$ alkenyloxy carbonyl;  $C_3-C_8$ alkynyloxy carbonyl;  $C_1-C_8$ alkanoyl;  $C_1-C_8$ dialkylamino or  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and  $R_5$  is hydrogen;  $C_1-C_8$ alkyl;  $C_2-C_8$ alkenyl;  $C_2-C_8$ alkynyl;  $C_3-C_8$ cycloalkyl;  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl;  $C_1-C_8$ alkylthio;  $C_1-C_8$ alkylsulfonyl;  $C_1-C_8$ alkoxy;  $C_3-C_8$ alkenyloxy;  $C_3-C_8$ alkynyloxy;  $C_3-C_8$ cycloalkoxy;  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl;  $C_1-C_8$ alkoxycarbonyl;  $C_3-C_8$ alkenyloxy carbonyl;  $C_3-C_8$ alkynyloxy carbonyl;  $C_1-C_8$ alkanoyl;  $C_1-C_8$ dialkylamino or  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and  $R_6$  is hydrogen;  $C_1-C_{10}$ alkyl;  $C_3-C_{10}$ alkenyl;  $C_3-C_{10}$ alkynyl;  $C_1-C_{10}$ haloalkyl;  $C_3-C_{10}$ haloalkenyl;  $C_3-C_{10}$ haloalkynyl; benzyl; benzyl substituted with  $C_1-C_8$ alkyl,  $C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkoxy,  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkenyloxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkynyloxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated, carboxyl; formyl; halogen; nitro; cyano; hydroxy; or amino; a group  $-CR_7R_8C\equiv C-B$  wherein  $R_7$  and  $R_8$  are independently hydrogen or  $C_1-C_4$ alkyl; and B is either  $C_1-C_8$ alkyl or  $C_3-C_8$ cycloalkyl; phenyl or phenyl substituted by  $C_1-C_8$ alkyl,  $C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkoxy,  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or a group  $-CR_7R_8-CR_9R_{10}-X-B$  wherein  $R_7$ ,  $R_8$ ,  $R_9$  and  $R_{10}$  are independently hydrogen or

C<sub>1</sub>-C<sub>4</sub>alkyl; X is -O-, -S- or -NR<sub>13</sub>- where R<sub>13</sub> is hydrogen or C<sub>1</sub>-C<sub>4</sub>alkyl; and B is either C<sub>3</sub>-C<sub>6</sub>cycloalkyl; phenyl or phenyl substituted by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl; C<sub>3</sub>-C<sub>6</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, C<sub>3</sub>-C<sub>6</sub>cycloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>3</sub>-C<sub>6</sub>alkenyloxy carbonyl, C<sub>3</sub>-C<sub>6</sub>alkynyloxy carbonyl, C<sub>1</sub>-C<sub>6</sub>alkanoyl, C<sub>1</sub>-C<sub>6</sub>dialkylamino, C<sub>1</sub>-C<sub>6</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or

2) - R<sub>1</sub> is hydrogen, C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>2</sub>-C<sub>12</sub>alkynyl or C<sub>1</sub>-C<sub>12</sub>haloalkyl; and R<sub>2</sub> is hydrogen and R<sub>3</sub> is phenyl, naphthyl, furyl, thienyl, imidazolyl, thiazolyl, oxazolyl, pyridyl, pyrimidinyl, benzothienyl, benzothiazolyl, chinolinyl, pyrazolyl, indolyl, benzimidazolyl or pyrrolyl, wherein each of the aromatic rings is optionally substituted with 1 to 3 substituents selected from C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, halogen, nitro or cyano; and A is optionally substituted 1,2-phenylene; optionally substituted 2,3-pyridinylidene; optionally substituted 3,4-pyridinylidene; optionally substituted 2,3-thienylidene; optionally substituted 4,5-thiazolylidene; optionally substituted 1,2-cyclohexylidene; optionally substituted 1,2-cyclopentylidene; optionally substituted 3,4-tetrahydrofuranlylidene or optionally substituted 1,2-cyclopropylidene; and R<sub>4</sub> is hydrogen; C<sub>1</sub>-C<sub>6</sub>alkyl; C<sub>1</sub>-C<sub>6</sub>haloalkyl; C<sub>2</sub>-C<sub>6</sub>alkenyl; C<sub>2</sub>-C<sub>6</sub>alkynyl; C<sub>1</sub>-C<sub>6</sub>alkylthio; C<sub>1</sub>-C<sub>6</sub>haloalkylthio; C<sub>1</sub>-C<sub>6</sub>alkoxy; C<sub>1</sub>-C<sub>6</sub>haloalkoxy; C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl; C<sub>1</sub>-C<sub>6</sub>alkanoyl; formyl; halogen; nitro; cyano or hydroxy; and R<sub>5</sub> is hydrogen; C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>4</sub>haloalkyl; C<sub>1</sub>-C<sub>4</sub>alkoxy; C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl; C<sub>1</sub>-C<sub>4</sub>alkanoyl; formyl; halogen; cyano or hydroxy; and R<sub>6</sub> is hydrogen; C<sub>1</sub>-C<sub>6</sub>alkyl; C<sub>3</sub>-C<sub>6</sub>alkenyl; C<sub>3</sub>-C<sub>6</sub>alkynyl; C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>6</sub>alkenyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>6</sub>alkynyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkyl, halogen, nitro or cyano; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>1</sub>-C<sub>6</sub>alkyl or C<sub>3</sub>-C<sub>6</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkyl, halogen, nitro or cyano; or a group -CH<sub>2</sub>-CH<sub>2</sub>-O-B where B is either C<sub>3</sub>-C<sub>6</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkyl, halogen, nitro or cyano; or

3) R<sub>1</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl, or C<sub>2</sub>-C<sub>6</sub>alkynyl; and R<sub>2</sub> is hydrogen and R<sub>3</sub> is phenyl or phenyl substituted with 1 to 3 substituents selected from C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, halogen, nitro or cyano; and A is 1,2-phenylene; 2,3-pyridinylidene;



3,4-pyridinylidene or 2,3-thienylidene; each optionally substituted with halogen,  $C_1-C_6$ alkyl,  $C_1-C_6$ alkoxy,  $C_1-C_6$ haloalkyl,  $C_1-C_6$ alkoxycarbonyl, nitro or cyano; or is 1,2-cyclohexylidene; 1,2-cyclopentylidene; 3,4-tetrahydrofuranylidene or 1,2-cyclopropylidene, each optionally substituted with  $C_1-C_6$ alkyl; and  $R_4$  is hydrogen;  $C_1-C_4$ alkyl;  $C_1-C_4$ alkoxy;  $C_1-C_4$ haloalkoxy or halogen; and  $R_5$  is hydrogen;  $C_1-C_4$ alkyl; halogen or cyano; and  $R_6$  is  $C_1-C_6$ alkyl;  $C_3-C_6$ alkenyl;  $C_3-C_6$ alkynyl;  $C_1-C_6$ alkoxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkenyloxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkynyloxy- $C_1-C_4$ alkyl; benzyl; benzyl substituted with  $C_1-C_4$ alkyl;  $C_1-C_6$ haloalkyl or halogen; a group  $-CH_2-C\equiv C-B$  where B is either  $C_1-C_6$ alkyl or  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with by  $C_1-C_4$ alkyl or halogen, or a group  $-CH_2-CH_2-O-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_6$ alkyl or halogen; or

5)  $R_1$  is hydrogen or  $C_2-C_6$ alkynyl; and  $R_2$  is hydrogen and  $R_3$  is phenyl;  $C_1$ -alkyl/phenyl or halophenyl; and A is 1,2-phenylene; 1,2-cyclohexylidene or 1,2-cyclopropylidene; and  $R_4$  is hydrogen; methoxy or ethoxy; and  $R_5$  is hydrogen; and  $R_6$  is  $C_1-C_6$ alkyl;  $C_3-C_6$ alkenyl;  $C_3-C_6$ alkynyl;  $C_1-C_6$ alkoxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkenyloxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkynyloxy- $C_1-C_4$ alkyl; benzyl; benzyl substituted with  $C_1-C_4$ alkyl,  $C_1-C_6$ haloalkyl or halogen; a group  $-CH_2-C\equiv C-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_4$ alkyl or halogen; or a group  $-CH_2-CH_2-O-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_6$ alkyl or halogen; or

6)  $R_1$  is hydrogen or propargyl; and  $R_2$  is hydrogen; and  $R_3$  is phenyl optionally substituted by one to two substituents selected from the group comprising methyl, ethyl, methoxy, fluoro, chloro, bromo, phenyl, trifluoromethyl, trifluoromethylthio or trifluoromethoxy; and A is 1,2-phenylene or 1,2-cyclohexylidene; and  $R_4$  is hydrogen or methoxy; and  $R_5$  is hydrogen; and  $R_6$  is selected from methyl, ethyl, propyl, allyl, butenyl, propargyl, butynyl, pentynyl, cyclopropylpropargyl, phenylpropargyl, bromophenylpropargyl and chlorophenylpropargyl; or

7)  $R_1$  is propargyl; and  $R_2$  is hydrogen; and  $R_3$  is phenyl optionally substituted by one to two substituents selected from the group comprising fluoro, chloro and bromo, or is phenyl optionally substituted by one substituent selected from the group comprising methyl, ethyl, methoxy, phenyl, trifluoromethyl, trifluoromethylthio or trifluoromethoxy; and A is 1,2-phenylene or 1,2-cyclohexylidene; and  $R_4$  is hydrogen or methoxy; and  $R_5$  is hydrogen; and  $R_6$  is selected from methyl, ethyl, propargyl, 3-butenyl and 3-pentynyl.

Preferred individual compounds are:

N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-2-phenyl-acetamide,

2-(4-chlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,

2-(4-bromophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,  
2-(3,4-dichlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,  
N-(3',4'-dimethoxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
2-(4-bromophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
2-(3,4-dichlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-phenyl-acetamide,  
2-(4-chlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
2-(4-bromophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
2-(3,4-dichlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(4-bromophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(3,4-dichlorophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-phenyl-acetamide,  
2-(4-chlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,  
2-(4-bromophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,  
2-(3,4-dichlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,  
N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(4-bromophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(3,4-dichlorophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-2-phenyl-acetamide,  
2-(4-chlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
2-(4-bromophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
2-(3,4-dichlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-

acetamide,

2-(4-bromophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

2-(3,4-dichlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

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2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-acetamide,  
2-(4-chlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(4-bromophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-acetamide,

2-(4-chlorophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

2-(4-bromophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

2-(3,4-dichlorophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-acetamide,  
2-(4-chlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(4-bromophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-acetamide,

2-(4-chlorophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

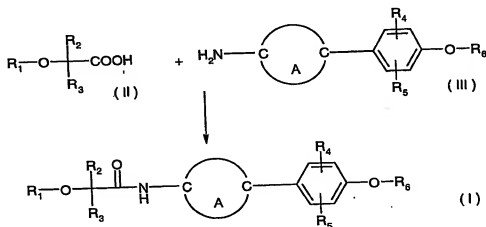
2-(4-bromophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide, and

2-(3,4-dichlorophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide.

Certain  $\alpha$ -hydroxy- and  $\alpha$ -alkoxy acid derivatives with a distinct chemical structure have been proposed for controlling plant-destructive fungi (for example in WO 94/29267 and WO 96/17840). The action of those preparations is not, however, satisfactory in all aspects of agricultural needs. Surprisingly, with the compound structure of formula I, new kinds of microbicides having a high level of activity have been found.

The N-bisaryl- and N-aryl-cycloalkylidenyl- $\alpha$ -hydroxy- and  $\alpha$ -alkoxy acid amides of formula I may be obtained according to one of the following processes:

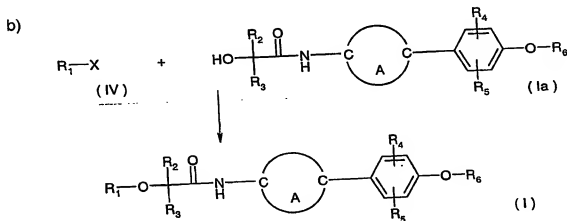
a)



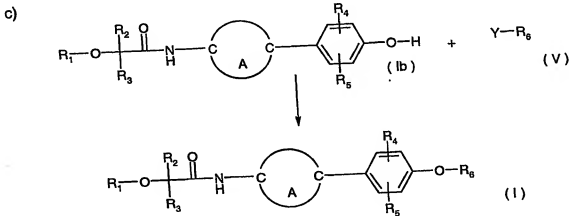
An  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II or a carboxyl-activated derivative of an  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II wherein  $R_1$ ,  $R_2$  and  $R_3$  are as defined for formula I, is reacted with an amine of formula III wherein  $A$ ,  $R_4$ ,  $R_5$  and  $R_6$ , are as defined for formula I, optionally in the presence of a base and optionally in the presence of a diluting agent. Carboxyl-activated derivatives of the  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II encompasses all compounds having an activated carboxyl group like an acid halide, such as an acid chloride or an acid fluoride, like symmetrical or mixed anhydrides, such as mixed anhydrides with O-alkylcarbonates, like activated esters, such as p-nitrophenylesters or N-hydroxysuccinimide esters, as well as in situ produced activated forms of the amino acid of formula II by condensating agents, such as dicyclohexylcarbodiimide, carbonyldiimidazol, benzotriazol-1-yloxy-tris(dimethylamino)phosphonium hexafluorophosphate, O-benzotriazol-1-yl N,N,N',N'-bis(pentamethylene)uronium hexafluorophosphate, O-benzotriazol-1-yl N,N,N',N'-bis-

(tetramethylene)uronium hexafluorophosphate, O-benzotriazol-1-yl N,N,N',N'-tetramethyluronium hexafluorophosphate or benzotriazol-1-yloxy-tripyrrolidinophosphonium hexafluorophosphate. The mixed anhydrides of the  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acids of the formula II can be prepared by reaction of a  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II with chloroformic acid esters like chloroformic acid alkylesters, such as ethyl chloroformate or isobutyl chloroformate, optionally in the presence of an organic or inorganic base like a tertiary amine, such as triethylamine, N,N-diisopropyl-ethylamine, pyridine, N-methyl-piperidine or N-methyl-morpholine. The acid halide of the  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acids of formula II may be prepared by reaction of a  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II with an inorganic halide, such as thionyl chloride or phosphorous pentachloride, or with organic halides, such as phosgene or oxalyl chloride.

The present reaction is preferably performed in an inert solvent like aromatic, non-aromatic or halogenated hydrocarbons, such as dichloromethane or toluene; ketones e.g. acetone; esters e.g. ethyl acetate; amides e.g. N,N-dimethylformamide; nitriles e.g. acetonitrile; or ethers e.g. diethylether, tert-butyl-methylether, dioxane or tetrahydrofuran or water. It is also possible to use mixtures of these solvents. The reaction is performed optionally in the presence of an organic or inorganic base like a tertiary amine, e.g. triethylamine, N,N-diisopropyl-ethylamine, pyridine, N-methyl-piperidine or N-methyl-morpholine, like a metal hydroxide or a metal carbonate, preferentially an alkali hydroxide or an alkali carbonate, such as lithium hydroxide, sodium hydroxide or potassium hydroxide at temperatures ranging from -80 to +150 °C, preferentially at temperatures ranging from -40 to +40 °C.



Compounds of formula I, in which  $R_1$  is different from hydrogen, may also be prepared by reaction of a  $\alpha$ -hydroxy acid amide of formula Ia wherein  $A$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I, with a compound of formula IV wherein  $R_1$  is as defined for formula I with the exception of hydrogen and where  $X$  is a leaving group like a halide such as a chloride or bromide, or a sulfonic ester such as a tosylate, mesylate or triflate. The reaction is preferably performed in an inert solvent like aromatic, non-aromatic or halogenated hydrocarbons, such as chlorohydrocarbons e.g. dichloromethane or toluene; ketones e.g. acetone; esters e.g. ethyl acetate; amides e.g.  $N,N$ -dimethylformamide; nitriles e.g. acetonitrile; or ethers e.g. diethylether, tert-butyl-methylether, dioxane or tetrahydrofuran or water. It is also possible to use mixtures of these solvents. The reaction is performed optionally in the presence of an organic or inorganic base like a tertiary amine, e.g. triethylamine,  $N,N$ -diisopropyl-ethylamine, pyridine,  $N$ -methyl-piperidine or  $N$ -methyl-morpholine, like a metal hydroxide or a metal carbonate, preferentially an alkali hydroxide or an alkali carbonate, such as lithium hydroxide, sodium hydroxide or potassium hydroxide at temperatures ranging from  $-80$  to  $+150$  °C, preferentially at temperatures ranging from  $-40$  to  $+40$  °C.

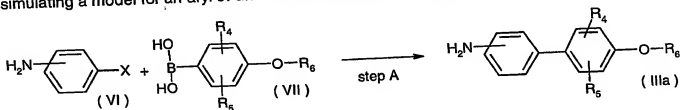


The compounds of formula I, where  $R_6$  is different from hydrogen, may also be prepared by reaction of a phenol of formula Ib where  $A$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ , and  $R_5$  are as defined for formula I, with a compound of formula V where  $R_6$  is as defined for formula I with the exception of hydrogen and where  $Y$  is a leaving group like a halide such as a chloride or bromide or a sulfonic ester such as a tosylate, mesylate or triflate.

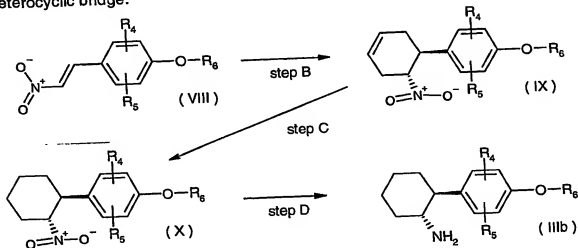
The reaction is performed in an inert solvent like aromatic, non-aromatic or halogenated hydrocarbons, such as chlorohydrocarbons e.g. dichloromethane or toluene; ketones e.g. acetone or 2-butanone; esters e.g. ethyl acetate; ethers e.g. diethylether, tert-butyl-

methylether, dioxane or tetrahydrofuran, amides e.g. dimethylformamide, nitriles e.g. acetonitrile, alcohols e.g. methanol, ethanol, isopropanol, n-butanol or tert-butanol, sulfides e.g. dimethylsulfoxide or water. It is also possible to use mixtures of these solvents. The reaction is performed optionally in the presence of an organic or inorganic base like a tertiary amine, such as triethylamine, N,N-diisopropyl-ethylamine, pyridine, N-methyl-piperidine or N-methyl-morpholine, like a metal hydroxide, a metal carbonate or a metal alkoxide, preferentially an alkali hydroxide, an alkali carbonate or an alkali alkoxide, such as lithium hydroxide, sodium hydroxide, potassium hydroxide, sodium carbonate, potassium carbonate, sodium methoxide, potassium methoxide, sodium ethoxide, potassium ethoxide, sodium tert-butoxide or potassium tert-butoxide at temperatures ranging from -80 to +20°C, preferentially at temperatures ranging from 0 to +120 °C.

Preparation of compounds of formula III, illustrated with one example of the phenylidene series where A is phenylidene yielding the aromatic amines of formula IIIa, but also simulating a model for an aryl or an aromatic heterocyclic bridge:



and one example of the cyclohexylidene series where A is cyclohexylidene yielding the non-aromatic amines of formula IIIb, also simulating saturated or unsaturated cyclic and heterocyclic bridge:



The compounds of formula III, in particular those of formulae IIIa and IIIb, have been created for the synthesis of the novel active ingredients of formula I. They constitute another feature of present invention.

Step A: The compounds of formula IIIa wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I may be prepared by palladium-catalyzed cross-coupling reaction of an aryl boronic acid derivative of formula VII wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I, with an aryl halide of formula VI wherein X is a halogen, preferentially bromine or iodine under the conditions of the Suzuki coupling, according to known procedures (Y. Miura et al., *Synthesis* 1995, 1419; M. Hird et al, *Synlett* 1999, 438).

Step B: A  $\alpha$ -nitrostyrene of formula VIII wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I is heated in a Diels-Alder reaction (M. B. Smith and J. March, *Advanced Organic Chemistry*, 5<sup>th</sup> ed., Wiley, 2001, p. 1062) together with 1,3-butadiene to give a 4-nitro-5-aryl-cyclohexenyl derivative of formula IX, wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I under conditions known per se (C. M. Nachtsheim and A. W. Frahm, *Arch. Pharm. (Weinheim)* 1989, 322, 187).

Step C: A 4-nitro-5-aryl-cyclohexenyl derivative of formula IX, wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I is reduced to a 1-nitro-2-aryl-cyclohexyl derivative of formula X, wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I. The reduction is preferably performed by catalytic hydrogenation in the presence of a metal catalyst like palladium on carbon or palladium hydroxide on carbon at pressures ranging from 1 to 100 bar, preferentially at pressures ranging from 1 to 50 bar; and temperatures ranging from 0 to +150 °C, preferentially at temperatures ranging from +20 to +100 °C.

Step D: A 1-nitro-2-aryl-cyclohexyl derivative of formula X, wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I is then further reduced to an 2-aryl-cyclohexylamine of formula IIIb, wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I. The reduction is preferably performed in the presence of a reagent such as zinc, tin or iron, each of these metals together with a mineral acid like hydrochloric acid or sulfuric acid, indium together with ammonium chloride, hydrazine or hydrazine hydrate together with Raney-Nickel, sodium borohydride, lithium aluminum hydride or by catalytic hydrogenation in the presence of a catalyst such as



platinum oxide at temperatures ranging from -80 to +200 °C, preferentially at temperatures ranging from -40 to +120 °C.

The compounds of formula I are oils or solids at room temperature and are distinguished by valuable microbiocidal properties. They can be used in the agricultural sector or related fields preventively and curatively in the control of plant-destructive microorganisms. The compounds of formula I according to the invention are distinguished at low rates of concentration not only by outstanding microbiocidal, especially fungicidal, activity but also by being especially well tolerated by plants.

Surprisingly, it has now been found that the compounds of formula I have for practical purposes a very advantageous biocidal spectrum in the control of phytopathogenic microorganisms, especially fungi. They possess very advantageous curative and preventive properties and are used in the protection of numerous crop plants. With the compounds of formula I it is possible to inhibit or destroy phytopathogenic microorganisms that occur on various crops of useful plants or on parts of such plants (fruit, blossom, leaves, stems, tubers, roots), while parts of the plants which grow later also remain protected, for example, against phytopathogenic fungi.

The novel compounds of formula I prove to be effective against specific genera of the fungus class Fungi imperfecti (e.g. Cercospora), Basidiomycetes (e.g. Puccinia) and Ascomycetes (e.g. Erysiphe and Venturia) and especially against Oomycetes (e.g. Plasmodiophora, Peronospora, Pythium and Phytophthora). They therefore represent in plant protection a valuable addition to the compositions for controlling phytopathogenic fungi. The compounds of formula I can also be used as dressings for protecting seed (fruit, tubers, grains) and plant cuttings from fungal infections and against phytopathogenic fungi that occur in the soil.

The invention relates also to compositions comprising compounds of formula I as active ingredient, especially plant-protecting compositions, and to the use thereof in the agricultural sector or related fields.

In addition, the present invention includes the preparation of those compositions, wherein the active ingredient is homogeneously mixed with one or more of the substances or groups

of substances described herein. Also included is a method of protecting plants which comprises applying the novel compounds of formula I or the novel compositions to said plants.

Target crops to be protected within the scope of this invention include, for example, the following species of plants: cereals (wheat, barley, rye, oats, rice, maize, sorghum and related species); beet (sugar beet and fodder beet); pomes, stone fruit and soft fruit (apples, pears, plums, peaches, almonds, cherries, strawberries, raspberries and blackberries); leguminous plants (beans, lentils, peas, soybeans); oil plants (rape, mustard, poppy, olives, sunflowers, coconut, castor oil plants, cocoa beans, groundnuts); cucurbitaceae (marrows, cucumbers, melons); fibre plants (cotton, flax, hemp, jute); citrus fruit (oranges, lemons, grapefruit, mandarins); vegetables (spinach, lettuce, asparagus, cabbages, carrots, onions, tomatoes, potatoes, paprika); lauraceae (avocado, cinnamon, camphor) and plants such as tobacco, nuts, coffee, sugar cane, tea, pepper, vines, hops, bananas and natural rubber plants, and also ornamentals.

The compounds of formula I are normally used in the form of compositions and can be applied to the area or plant to be treated simultaneously or in succession with other active ingredients. Those other active ingredients may be fertilisers, micronutrient donors or other preparations that influence plant growth. It is also possible to use selective herbicides or insecticides, fungicides, bactericides, nematocides, molluscicides or mixtures of several of those preparations, if desired together with further carriers, surfactants or other application-promoting adjuvants customarily employed in formulation technology.

The compounds of formula I can be mixed with other fungicides, resulting in some cases in unexpected synergistic activities.

Mixing components which are particularly preferred are azoles such as azoles, such as azaconazole, bitertanol, bromuconazole, cyproconazole, difenoconazole, diniconazole, epoxiconazole, fenbuconazole, fluquinconazole, flusilazole, flutriafol, hexaconazole, imazalil, S-imazalil, imibenconazole, ipconazole, metconazole, myclobutanil, pefurazoate, penconazole, pyrifenoxy, prochloraz, propiconazole, tebuconazole, tetraconazole, triadimefon, triadimenol, triflumizole, triticonazole; pyrimidinyl carbinols, such as ancymidol, fenarimol, nuarimol; 2-amino-pyrimidines, such as bupirimate, dimethirimol, ethirimol; morpholines, such as dodemorph, fenpropidine, fenpropimorph, spiroxamine, tridemorph;

anilinopyrimidines, such as cyprodinil, mepanipyrim, pyrimethanil; pyrroles, such as fenpiconil, fludioxonil; phenylamides, such as benalaxyl, furalaxyl, metalaxyl, R-metalaxyl, ofurace, oxadixyl; benzimidazoles, such as benomyl, carbendazim, debacarb, fuberidazole, thiabendazole; dicarboximides, such as chlozolate, dichlozoline, iprodione, myclozoline, procymidone, vinclozolin; carboxamides, such as carboxin, fenfuram, flutolanil, mepronil, oxytetracycline, thifluzamide; guanidines, such as guazatine, dodine, iminoctadine; strobilurines, such as azoxystrobin, kresoxim-methyl, metominostrobin, SSF-129, CGA 279202 (trifloxystrobin), picoxystrobin; dithiocarbamates, such as ferbam, mancozeb, maneb, metiram, propineb, thiram, zineb, ziram; N-halogenmethylthiophthalimides, such as captan, dichlofluanid, fluoromide, folpet, tolyfluanid; Cu compounds, such as Bordeaux mixture, copper hydroxide, copper oxychloride, copper sulfate, cuprous oxide, mancozeb, oxine-copper; nitrophenol derivatives, such as dinocap, nitrothol-isopropyl; organo-P derivatives, such as edifenphos, iprobenphos, isoprothiolane, phosdiphen, pyrazophos, toclofos-methyl; various, such as AC 382042, acibenzolar-S-methyl, anilazine, blastocid-S, quinomethionat, chloroneb, chlorothalonil, cymoxanil, dichlone, diclomezone, dicloran, diethofencarb, dimethomorph, dithianon, etridiazole, famoxadone, fenamidone, fenhexamid, fentin, ferimzone, fluazinam, flusulfamide, fosetyl-aluminium, hymexazol, IKF-916, iprovalicarb, kasugamycin, methasulfocarb, MON65500, pencycuron, phthalide, polyoxins, probenazole, propamocarb, pyroquilon, quinoxifen, quintozone, RH-7281, RPA 407213, pyraclostrobin (BAS 500F), sulfur, SYP-Z071, triazoxide, tricyclazole, triforine, validamycin.

Suitable carriers and surfactants may be solid or liquid and correspond to the substances ordinarily employed in formulation technology, such as e.g. natural or regenerated mineral substances, solvents, dispersants, wetting agents, tackifiers, thickeners, binders or fertilisers. Such carriers and additives are described, for example, in WO 95/30651.

A preferred method of applying a compound of formula I, or an agrochemical composition comprising at least one of those compounds, is application to the foliage (foliar application), the frequency and the rate of application depending upon the risk of infestation by the pathogen in question. The compounds of formula I may also be applied to seed grains (coating) either by impregnating the grains with a liquid formulation of the active ingredient or by coating them with a solid formulation.

The compounds of formula I are used in unmodified form or, preferably, together with the

adjuvants conventionally employed in formulation technology, and are for that purpose advantageously formulated in known manner e.g. into emulsifiable concentrates, coatable pastes, directly sprayable or dilutable solutions, dilute emulsions, wettable powders, soluble powders, dusts, granules, and by encapsulation in e.g. polymer substances. As with the nature of the compositions, the methods of application, such as spraying, atomising, dusting, scattering, coating or pouring, are chosen in accordance with the intended objectives and the prevailing circumstances.

Advantageous rates of application are normally from 1 g to 2 kg of active ingredient (a.i.) per hectare (ha), preferably from 10 g to 1 kg a.i./ha, especially from 25 g to 750 g a.i./ha. When used as seed dressings, rates of from 0.001 g to 1.0 g of active ingredient per kg of seed are advantageously used.

The formulations, i.e. the compositions, preparations or mixtures comprising the compound(s) (active ingredient(s)) of formula I and, where appropriate, a solid or liquid adjuvant, are prepared in known manner, e.g. by homogeneously mixing and/or grinding the active ingredient with extenders, e.g. solvents, solid carriers and, where appropriate, surface-active compounds (surfactants).

Further surfactants customarily used in formulation technology will be known to the person skilled in the art or can be found in the relevant technical literature.

The agrochemical compositions usually comprise 0.01 to 99 % by weight, preferably 0.1 to 95 % by weight, of a compound of formula I, 99.99 to 1 % by weight, preferably 99.9 to 5 % by weight, of a solid or liquid adjuvant, and 0 to 25 % by weight, preferably 0.1 to 25 % by weight, of a surfactant.

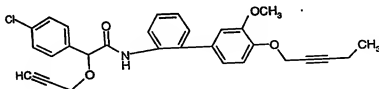
Whereas commercial products will preferably be formulated as concentrates, the end user will normally employ dilute formulations.

The compositions may also comprise further ingredients, such as stabilisers, antifoams, viscosity regulators, binders and tackifiers, as well as fertilisers or other active ingredients for obtaining special effects.

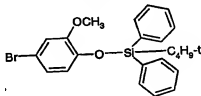
The following Examples illustrate the invention described above, without limiting the scope thereof in any way. Temperatures are given in degrees Celsius.

Preparation Examples for compounds of formula I :

Example A1.1 : 2-(4-Chlorophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide



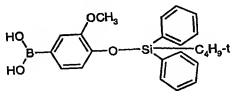
a) (4-Bromo-2-methoxy-phenoxy)-tert-butyl-diphenyl-silane



76.8 ml (300 mmol) tert-Butyldiphenylchlorosilane are added to a solution of 40.61 g (200 mmol) 4-bromoguaiacol and 27.23 g (400 mmol) imidazole in 200 ml dichloromethane at 0°C. The mixture is stirred for 4 hours at room temperature. The solution is diluted with CH<sub>2</sub>Cl<sub>2</sub> and extracted with 300 ml water. The solvent of the organic phase is evaporated and the residue is purified by flash-chromatography (ethyl acetate/hexane 3:97), yielding (4-bromo-2-methoxy-phenoxy)-tert-butyl-diphenyl-silane as a colorless oil.

<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.15 (s, 9 H, t-Bu), 3.55 (s, 3 H, OMe), 6.55 (d, 1H, ar), 6.78 (2m, 1 H, ar), 6.66 (s, 1H, ar), 7.3-7.5 (m, 6H, ar), 7.65-7.75 (m, 4H, ar).

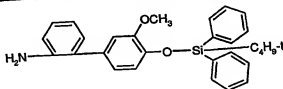
b) 4-(tert-Butyl-diphenyl-silyloxy)-3-methoxy-phenyl-boronic acid



At -78°C, 140 ml n-BuLi (1.6 M in hexane, 223.8 mmol) in 600 ml THF are added to a solution of 89.92 g (203.4 mmol) (4-bromo-2-methoxy-phenoxy)-tert-butyl-diphenyl-silane over a period of 30 minutes. After further 30 minutes at -78°C, 140.9 ml (610.4 mmol) triisopropylborate are added over a period of 30 minutes. The mixture is allowed to warm up to room

temperature and is then hydrolysed at 0°C with a 10% HCl solution within 30 minutes. After separation of the water phase, the organic phase is dried over  $\text{MgSO}_4$ , condensed and the residue is crystallized from ethyl acetate and a mixture of ethyl acetate/heptane, yielding 4-(tert-butyl-diphenyl-silanyloxy)-3-methoxy-phenyl-boronic acid is isolated as a light yellow solid (m.p. 193-196°C).

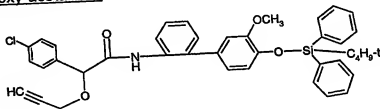
c) 4'-(tert-Butyl-diphenyl-silanyloxy)-3'-methoxy-biphenyl-2-ylamine



A solution of 17.89 g (44.0 mmol) 4-(tert-butyl-diphenyl-silanyloxy)-3-methoxy-phenyl-boronic acid, 6.89 g (31.45 mmol) 2-iodoaniline, 17.4 g (125.8 mmol)  $\text{K}_2\text{CO}_3$  and 425 mg (6 mol%)  $\text{Pd}(\text{OAc})_2$  in 140 ml THF and 80 ml  $\text{H}_2\text{O}$  is heated to reflux for 20 hours. After cooling the mixture is filtrated over celite and concentrated. The residue is dissolved in ethyl acetate and washed with water. After drying ( $\text{MgSO}_4$ ) and evaporating the solvent, the residue is subjected to flash-chromatography (ethyl acetate/hexane 1:9). Yield: 4'-(tert-Butyl-diphenyl-silanyloxy)-3'-methoxy-biphenyl-2-ylamine is isolated as a colorless oil.

$^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 300 MHz): 1.15 (s, 9 H, t-Bu), 3.55 (s, 3 H, OMe), 6.6–6.9 (m, 5H, ar), 7.05–7.15 (m, 2H, ar), 7.30–7.50 (m, 6H, ar), 7.75 (m, 4H, ar).

d) N-[4'-(tert-Butyl-diphenyl-silanyloxy)-3'-methoxy-biphenyl-2-yl]-2-(4-chloro-phenyl)-prop-2-ynyloxy-acetamide

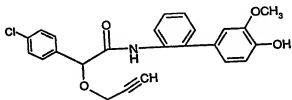


Oxalyl chloride (4.3 g, 33 mmol) is added to a solution of (4-chlorophenyl)-prop-2-ynyloxy-acetic acid (6.8 g, 30 mmol) in a mixture of 150 ml of dichloromethane and few drops of  $\text{N,N}$ -dimethylformamide. The reaction mixture is stirred for 4 hours at room temperature and then added to a solution of 4'-(tert-butyl-diphenyl-silanyloxy)-3'-methoxy-biphenyl-2-ylamine (13.8 g, 30 mmol) and triethylamine (4.6 g, 45 mmol) in 150 ml of dichloromethane. The resulting mixture is stirred for 16 hours at room temperature under a nitrogen atmosphere.

Subsequently, the mixture is diluted with chloroform and extracted with water. The combined organic layer is dried over sodium sulfate and evaporated and the remaining crude product is subjected to flash-chromatography (ethyl acetate/hexane 3:7) yielding N-[4'-(tert-butyl-diphenyl-silyloxy)-3'-methoxy-biphenyl-2-yl]-2-(4-chlorophenyl)-2-prop-2-ynyloxy-acetamide as an orange oil.

<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.15 (s, 9 H, t-Bu), 2.39 (t, 1H, C≡CH), 3.61 (s, 3 H, OMe), 3.80 (dd, 1H, CH<sub>2</sub>C≡C), 3.92 (dd, 1H, CH<sub>2</sub>C≡C), 4.99 (s, 1H), 6.63 – 8.72 (m, 22H, ar, NH).

e) 2-(4-Chlorophenyl)-N-(4'-hydroxy-3'-methoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide



A solution of 10.2 g (15.5 mmol) N-[4'-(tert-butyl-diphenyl-silyloxy)-3'-methoxy-biphenyl-2-yl]-2-(4-chlorophenyl)-2-prop-2-ynyloxy-acetamide and 24.5 g (77.5 mmol) tetrabutylammonium fluoride in 200 ml of dichloromethane is stirred for 4 hours at room temperature. After extracting with water / ethyl acetate and evaporation of the organic phase, the residue is subjected to flash-chromatography (ethyl acetate/hexane 4:6). Yield : 2-(4-chlorophenyl)-N-(4'-hydroxy-3'-methoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide, m.p. 140 – 142 °C.

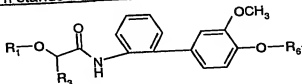
<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 2.48 (t, 1H, C≡CH), 3.89 (s, 3 H, OMe), 3.93 (dd, 1H, CH<sub>2</sub>C≡C), 4.10 (dd, 1H, CH<sub>2</sub>C≡C), 5.03 (s, 1H), 6.84 – 8.22 (m, 12H, ar, NH).

f) A solution of 1.3 g (3.1 mmol) 2-(4-chloro-phenyl)-N-(4'-hydroxy-3'-methoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide, 6.0 ml (6.0 mmol) of a 1M solution of sodium methoxide in methanol and 0.5 g (4.7 mmol) 2-pentynyl chloride in 50 ml of methanol is heated to reflux for 3 hours. After cooling, the reaction mixture is poured into ethyl acetate. The organic layer is washed with brine, dried over sodium sulfate and evaporated. The remaining product is subjected to flash-chromatography (ethyl acetate/hexane 4:6) to yield 2-(4-chloro-phenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide as yellow oil.

<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.13 (t, 3H, Me), 2.22 (q, 2H, CH<sub>2</sub>), 2.50 (t, 1H, C≡CH), 3.88 (s, 3 H, OMe), 3.95 (d, 1H, CH<sub>2</sub>C≡C), 4.07 (d, 1H, CH<sub>2</sub>C≡C), 4.82 (d, 2H, CH<sub>2</sub>), 5.04 (s, 1H), 6.88 – 8.78 (m, 12H, ar, NH).

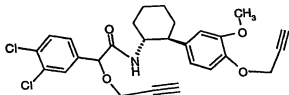
According to the example A1.1 described above the compounds listed in table A1 are obtained.

Table A1 (Ph stands for phenyl):

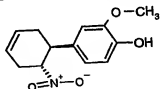


No.	R <sub>1</sub>	R <sub>3</sub>	R <sub>6</sub>	physico-chemical data
A1.01	-CH <sub>2</sub> -C≡CH	Ph	CH <sub>3</sub>	Oil
A1.02	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	-Si(C <sub>4</sub> H <sub>9</sub> -t)(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub>	Oil
A1.03	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	H	m.p. 140-142
A1.04	-CH <sub>2</sub> -C≡CH	4-Br-Ph	CH <sub>3</sub>	Oil
A1.05	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	CH <sub>3</sub>	Oil
A1.06	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	C <sub>2</sub> H <sub>5</sub>	Oil
A1.07	-CH <sub>2</sub> -C≡CH	Ph	C <sub>2</sub> H <sub>5</sub>	m.p. 102-104
A1.08	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	-CH <sub>2</sub> -C≡CCH <sub>2</sub> CH <sub>3</sub>	Oil
A1.09	-CH <sub>2</sub> -CH=CH <sub>2</sub>	4-Cl-Ph	CH <sub>3</sub>	Oil
A1.10	-CH <sub>2</sub> -C≡CH	3,4-Cl <sub>2</sub> -Ph	CH <sub>3</sub>	Oil
A1.11	-CH <sub>2</sub> -CH=CH <sub>2</sub>	4-Cl-Ph	C <sub>2</sub> H <sub>5</sub>	Oil

Example A1.2: 2-(3,4-Dichlorophenyl)-N-[trans-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide



a) trans-2-Methoxy-4-(6-nitro-cyclohex-3-enyl)-phenol

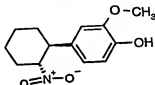




A mixture of 50 g of 3-methoxy-4-hydroxy- $\alpha$ -nitrostyrene, 1.0 g (9.1 mmol) of hydroquinone and 55 g (1.02 mol) of 1,3-butadiene in 200ml toluene is made at  $-78^{\circ}\text{C}$ . This mixture is stirred at  $+130^{\circ}\text{C}$  for 4 days in an autoclave. Subsequently, the toluene is evaporated in vacuum. The dark brown oil is purified by crystallization from ethanol. This method allows to obtain *trans*-2-methoxy-4-(6-nitro-cyclohex-3-enyl)-phenol.

$^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 300 MHz): 2.28 – 2.83 (m, 4H,  $\text{CH}_2$ ), 3.34 (td, 1H), 3.87 (s, 3H,  $\text{OCH}_3$ ), 4.89 (td, 1H), 5.53 (s, 1H, OH), 5.71 – 5.84 (m, 2H,  $\text{CH}=\text{CH}$ ), 6.69 (d, 1H, ar), 6.73 (dd, 1H, ar), 6.85 (d, 1H, ar).

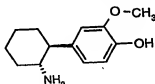
b) *trans*-2-Methoxy-4-(2-nitro-cyclohexyl)-phenol



In 300 ml methanol 8.4 g (33.7 mmol) of *trans*-2-methoxy-4-(6-nitro-cyclohex-3-enyl)-phenol are solved. To this solution 500 mg of 10 % Pd/C are added. The mixture is hydrogenated at room temperature for 6 hours. The mixture was then filtered through Filter Cel and evaporation of the filtrate in vacuum, yielding *trans*-2-methoxy-4-(2-nitro-cyclohexyl)-phenol as a light yellow solid.

$^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 300 MHz): 1.40 – 2.40 (m, 8H,  $\text{CH}_2$ ), 3.05 (td, 1H), 3.85 (s, 3H,  $\text{OCH}_3$ ), 4.62 (td, 1H), 6.65 (d, 1H, ar), 6.69 (dd, 1H, ar), 6.83 (d, 1H, ar).

c) *trans*-4-(2-Amino-cyclohexyl)-2-methoxy-phenol

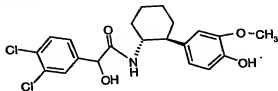


A solution of 8.5 g (33.8 mmol) of *trans*-2-methoxy-4-(2-nitro-cyclohexyl)-phenol is prepared in 300 ml methanol. To this are added simultaneously 7ml of hydrazine hydrate and 2.5 g of Raney-Nickel over 8 hours with vigorous stirring. Upon completion of the addition the reaction mixture is stirred for another 16 hour at room temperature. The mixture is then filtered and evaporation of the filtrate in vacuum gives *trans*-4-(2-amino-cyclohexyl)-2-methoxy-phenol as a light yellow solid.

$^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 300 MHz): 1.20 – 2.10 (m, 8H,  $\text{CH}_2$ ), 2.17 (td, 1H), 2.77 (td, 1H), 3.87 (s,

3H, OCH<sub>3</sub>), 6.72 (d, 1H, ar), 6.79 (dd, 1H, ar), 6.89 (d, 1H, ar).

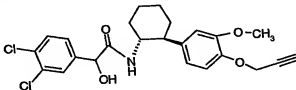
d) 2-(3,4-Dichlorophenyl)-2-hydroxy-N-[trans-2-(4-hydroxy-3-methoxy-phenyl)-cyclohexyl]-acetamide



To a stirred solution of 3.0 g (13.5 mmol) of DL-3,4-dichloromandelic acid, 3.0 g (13.5 mmol) of *trans*-4-(2-amino-cyclohexyl)-2-methoxy-phenol and 1.8 g (13.5 mmol) of N,N-diisopropylethylamine in 30 ml DMF is added 6.0 g (13.5 mmol) of benzotriazol-1-yloxytris(dimethylamino)phosphonium hexafluorophosphate in one portion. The reaction mixture is then stirred at ambient temperature for about 2 hours and thereafter poured into 150 ml of aqueous saturated sodium chloride solution. The two-phase mixture is extracted with two 150 ml portions of ethyl acetate. The organic extract is concentrated under reduced pressure to a residue, which is subjected to column chromatography on silica gel, with 1:1 ethyl acetate / isohexane as the eluant yielding 2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(4-hydroxy-3-methoxy-phenyl)-cyclohexyl]-acetamide.

<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.17 – 2.24 (m, 10H), 3.76 (s, 3H, OCH<sub>3</sub>), 3.93 (m, 1H), 4.67 (s, 1H), 5.42 (d, 2H), 6.47 – 7.21 (m, 6H, ar).

e) 2-(3,4-Dichlorophenyl)-2-hydroxy-N-[trans-2-(3-methoxy-4-prop-2-ynloxy-phenyl)-cyclohexyl]-acetamide



A solution of 0.6 g (1.4 mmol) of 2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(4-hydroxy-3-methoxy-phenyl)-cyclohexyl]-acetamide and 0.4 g (1.9 mmol) of propynyl tosylate and 2.7 ml of 1M solution of sodium methoxide in 10 ml methanol is heated to reflux for 3 hours. The reaction mixture is cooled and poured into 30 ml of aqueous saturated sodium chloride solution and finally extracted with two 100 ml portions of ethyl acetate. The combined organic extract is concentrated under reduced pressure to a residue, which is subjected to column chromatography on silica gel, with 1:1 ethyl acetate / isohexane as the eluant to

obtain 2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-acetamide.

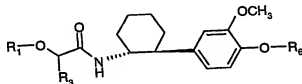
<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.20 – 2.21 (m, 8H), 2.23 (td, 1H), 2.51 (t, 1H, C≡CH), 3.75 (bs, 1H, OH), 3.79 (s, 3H, OCH<sub>3</sub>), 4.01 (m, 1H), 4.70 (s, 1H), 4.76 (d, 2H, CH<sub>2</sub>C≡C), 5.42 (d, 1H), 6.54 – 7.26 (m, 6H, ar).

f) To a stirred solution of 0.4 g (0.85 mmol) of 2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-acetamide, 0.5 ml of 30 % aqueous sodium hydroxide solution and 5 mg of tetrabutylammonium bromide in 3 ml dichloromethane is added 0.18 g (0.85 mmol) of propynyl tosylate during 1 hour. Upon completion of the addition the reaction mixture is stirred for additional 16 hours at room temperature. The mixture is then extracted with dichloromethane. The organic extract is concentrated under reduced pressure to a residue, which was subjected to column chromatography on silica gel, with 1:2 ethyl acetate / isohexane as the eluant to obtain 2-(3,4-dichlorophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide.

<sup>1</sup>H-NMR (CDCl<sub>3</sub>, 300 MHz): 1.23 – 2.10 (m, 8H), 2.37 (td, 1H), 2.43 (t, 1H, C≡CH), 2.49 (t, 1H, C≡CH), 3.68 (d, 2H), 3.87 (s, 3H, OCH<sub>3</sub>), 3.97 (m, 1H), 4.62 (s, 1H), 4.74 (d, 2H, CH<sub>2</sub>C≡C), 6.32 (d, 1H, NH), 6.75 – 7.43 (m, 6H, ar).

According to the example A1.2 described above the compounds listed in table A2 are obtained.

Table A2:

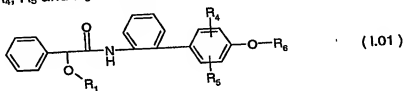


No.	R <sub>1</sub>	R <sub>2</sub>	R <sub>6</sub>	physico-chemical data
A2.01	H	4-Br-Ph	CH <sub>3</sub>	m.p. 181-182
A2.02	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	-CH <sub>2</sub> -C≡CCH <sub>2</sub> CH <sub>3</sub>	m.p. 133-135
A2.03	H	4-Br-Ph	-CH <sub>2</sub> -C≡CH	m.p. 158-159
A2.04	H	4-Cl-Ph	-CH <sub>2</sub> -C≡CCH <sub>2</sub> CH <sub>3</sub>	m.p. 99-102
A2.05	-CH <sub>2</sub> -C≡CH	4-Cl-Ph	-CH <sub>2</sub> -C≡CH	m.p. 123-125

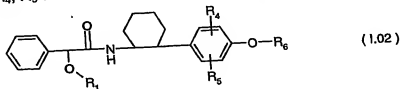
A2.06	$-\text{CH}_2-\text{C}\equiv\text{CH}$	4-Br-Ph	$-\text{CH}_2-\text{C}\equiv\text{CH}$	m.p. 140-142
A2.07	$-\text{CH}_2-\text{C}\equiv\text{CH}$	3,4-Cl <sub>2</sub> -Ph	$-\text{CH}_2-\text{C}\equiv\text{CH}$	m.p. 124-126
A2.08	H	3,4-Cl <sub>2</sub> -Ph	$-\text{CH}_2-\text{C}\equiv\text{CCH}_2\text{CH}_3$	Oil
A2.09	H	4-Cl-Ph	$-\text{CH}_2-\text{C}\equiv\text{CH}$	m.p. 144-146
A2.10	$-\text{CH}_2-\text{C}\equiv\text{CH}$	3,4-Cl <sub>2</sub> -Ph	$-\text{CH}_2-\text{C}\equiv\text{CCH}_2\text{CH}_3$	m.p. 143-144
A2.11	H	3,4-Cl <sub>2</sub> -Ph	$-\text{CH}_2-\text{C}\equiv\text{CH}$	m.p. 127-129
A2.12	H	4-Br-Ph	H	m.p. 188-191
A2.13	H	3,4-Cl <sub>2</sub> -Ph	CH <sub>3</sub>	m.p. 133-136
A2.14	H	4-Br-Ph	$-\text{CH}_2-\text{C}\equiv\text{CCH}_2\text{CH}_3$	Oil
A2.15	$-\text{CH}_2-\text{C}\equiv\text{CH}$	4-Br-Ph	$-\text{CH}_2-\text{C}\equiv\text{CCH}_2\text{CH}_3$	m.p. 137-139
A2.16	H	4-Cl-Ph	CH <sub>3</sub>	m.p. 179-180
A2.17	H	3,4-Cl <sub>2</sub> -Ph	H	m.p. 182-184

Analogously to the above Examples the following compounds of Tables 1 to 50 may be prepared. In the tables Ph means phenyl.

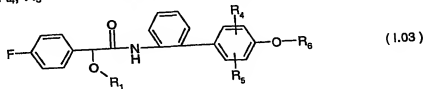
**Table 1 :** Compounds represented by the Formula I.01 wherein the combination of the groups R<sub>1</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> corresponds to each row in table A.



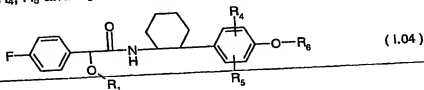
**Table 2 :** Compounds represented by the Formula I.02 wherein the combination of the groups R<sub>1</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> corresponds to each row in table A.



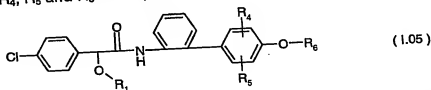
**Table 3 :** Compounds represented by the Formula I.03 wherein the combination of the groups R<sub>1</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> corresponds to each row in table A.



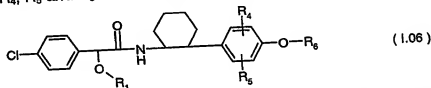
**Table 4 :** Compounds represented by the Formula 1.04 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



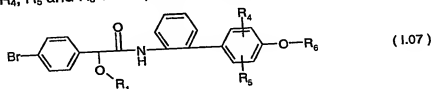
**Table 5 :** Compounds represented by the Formula 1.05 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



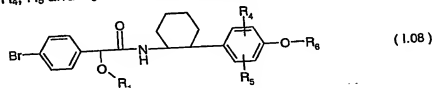
**Table 6 :** Compounds represented by the Formula 1.06 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



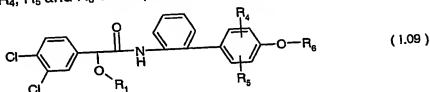
**Table 7 :** Compounds represented by the Formula 1.07 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



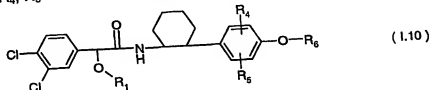
**Table 8 :** Compounds represented by the Formula 1.08 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



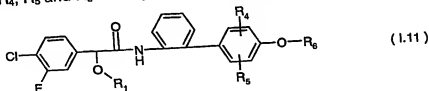
**Table 9 :** Compounds represented by the Formula 1.09 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



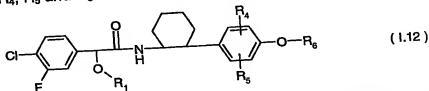
**Table 10 :** Compounds represented by the Formula 1.10 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



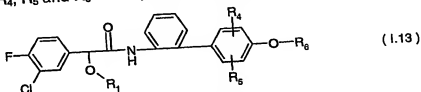
**Table 11 :** Compounds represented by the Formula 1.11 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



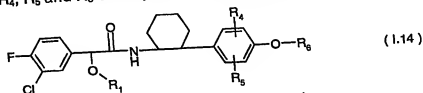
**Table 12 :** Compounds represented by the Formula 1.12 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



**Table 13 :** Compounds represented by the Formula 1.13 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



**Table 14 :** Compounds represented by the Formula 1.14 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



**Table 15 :** Compounds represented by the Formula 1.15 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

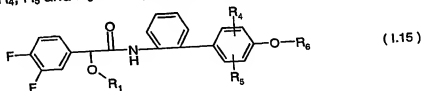


Table 16 : Compounds represented by the Formula 1.16 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

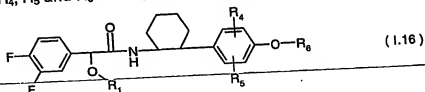


Table 17 : Compounds represented by the Formula 1.17 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

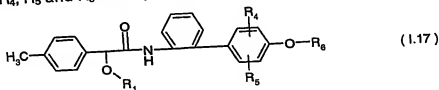


Table 18 : Compounds represented by the Formula 1.18 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

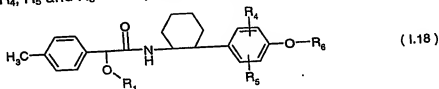


Table 19 : Compounds represented by the Formula 1.19 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

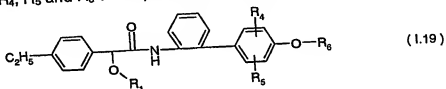


Table 20 : Compounds represented by the Formula 1.20 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

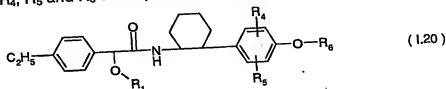
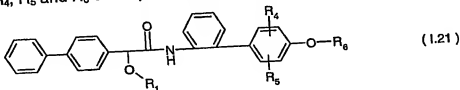
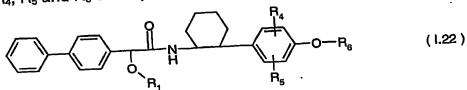


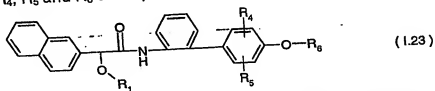
Table 21 : Compounds represented by the Formula 1.21 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



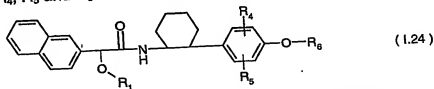
**Table 22 :** Compounds represented by the Formula 1.22 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



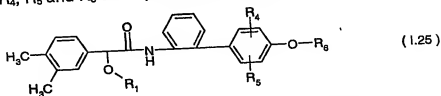
**Table 23 :** Compounds represented by the Formula 1.23 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



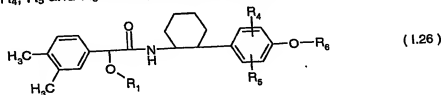
**Table 24 :** Compounds represented by the Formula 1.24 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



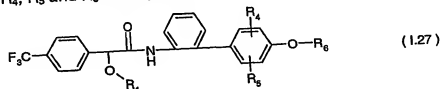
**Table 25 :** Compounds represented by the Formula 1.25 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



**Table 26 :** Compounds represented by the Formula 1.26 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

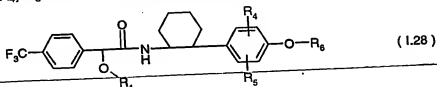


**Table 27 :** Compounds represented by the Formula 1.27 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

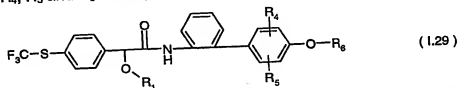




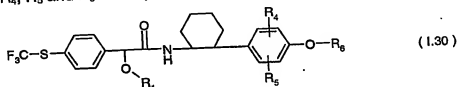
**Table 28 :** Compounds represented by the Formula 1.28 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



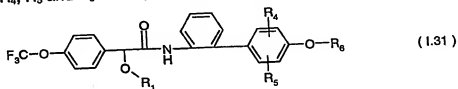
**Table 29 :** Compounds represented by the Formula 1.29 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



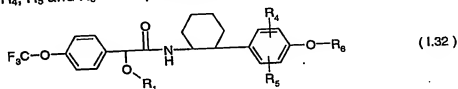
**Table 30 :** Compounds represented by the Formula 1.30 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



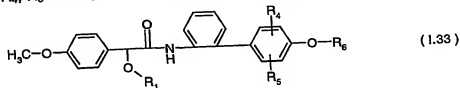
**Table 31 :** Compounds represented by the Formula 1.31 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



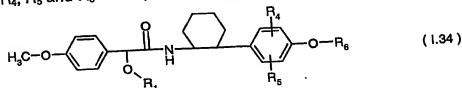
**Table 32 :** Compounds represented by the Formula 1.32 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



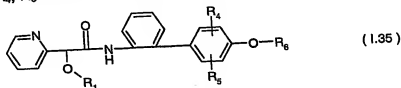
**Table 33 :** Compounds represented by the Formula 1.33 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



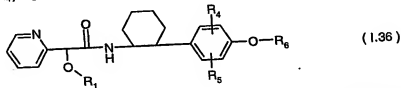
**Table 34 :** Compounds represented by the Formula 1.34 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



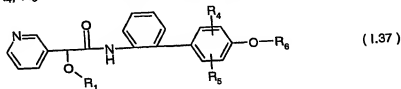
**Table 35 :** Compounds represented by the Formula 1.35 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



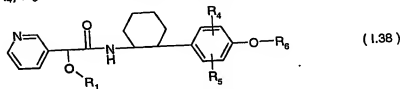
**Table 36 :** Compounds represented by the Formula 1.36 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



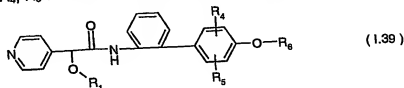
**Table 37 :** Compounds represented by the Formula 1.37 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



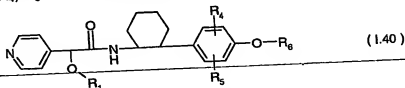
**Table 38 :** Compounds represented by the Formula 1.38 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



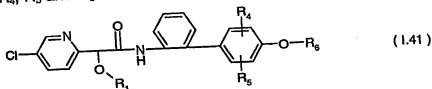
**Table 39 :** Compounds represented by the Formula 1.39 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



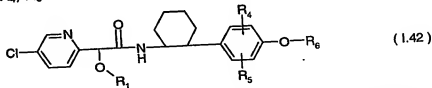
**Table 40 :** Compounds represented by the Formula 1.40 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



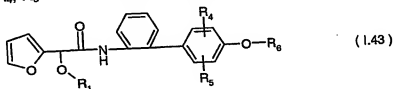
**Table 41 :** Compounds represented by the Formula 1.41 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



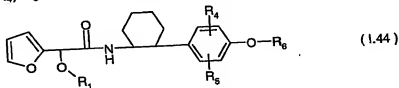
**Table 42 :** Compounds represented by the Formula 1.42 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



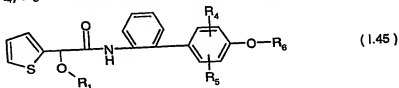
**Table 43 :** Compounds represented by the Formula 1.43 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



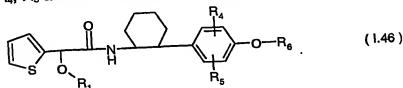
**Table 44 :** Compounds represented by the Formula 1.44 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



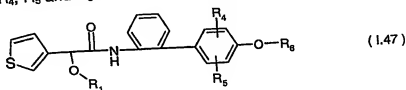
**Table 45 :** Compounds represented by the Formula 1.45 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



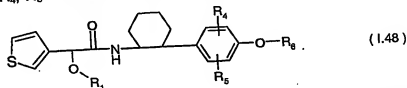
**Table 46 :** Compounds represented by the Formula 1.46 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



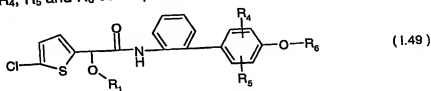
**Table 47 :** Compounds represented by the Formula 1.47 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



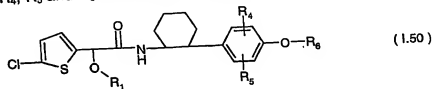
**Table 48 :** Compounds represented by the Formula 1.48 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



**Table 49 :** Compounds represented by the Formula 1.49 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.

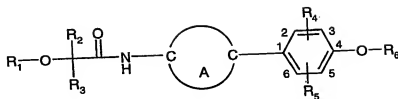


**Table 50 :** Compounds represented by the Formula 1.50 wherein the combination of the groups  $R_1$ ,  $R_4$ ,  $R_5$  and  $R_6$  corresponds to each row in table A.



In Table A the designation Ph stands for phenyl.

Table A



No.	R <sub>1</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>
001	H-	H-	H-	-H
002	H-	H-	H-	-CH <sub>3</sub>
003	H-	H-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
004	H-	H-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
005	H-	H-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
006	H-	H-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
007	H-	H-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
008	H-	H-	H-	-CH <sub>2</sub> -CH=CHCl
009	H-	H-	H-	-CH <sub>2</sub> -C≡CH
010	H-	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
011	H-	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
012	H-	H-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
013	H-	H-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
014	H-	H-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
015	H-	H-	H-	-CH <sub>2</sub> -Ph
016	CH <sub>3</sub> -	H-	H-	-H
017	CH <sub>3</sub> -	H-	H-	-CH <sub>3</sub>
018	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
019	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
020	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
021	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
022	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
023	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -CH=CHCl
024	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡CH
025	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
026	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>

027	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
028	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
029	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
030	CH <sub>3</sub> -	H-	H-	-CH <sub>2</sub> -Ph
031	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-H
032	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>3</sub>
033	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
034	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
035	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
036	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
037	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
038	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CHCl
039	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡CH
040	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
041	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
042	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
043	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
044	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
045	CH <sub>3</sub> -CH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -Ph
046	HC≡CCH <sub>2</sub> -	H-	H-	-H
047	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>3</sub>
048	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
049	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
050	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
051	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
052	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
053	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -CH=CHCl
054	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡CH
055	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
056	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
057	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
058	HC≡CCH <sub>2</sub> -	H-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>

059	$\text{HC}\equiv\text{CCH}_2^-$	H-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{C}_3\text{H}_5\text{-cycl}$
060	$\text{HC}\equiv\text{CCH}_2^-$	H-	H-	$-\text{CH}_2\text{-Ph}$
061	H-	$3-\text{CH}_3\text{-O-}$	H-	-H
062	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_3$
063	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CF}_3$
064	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CHF}_2$
065	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
066	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_2\text{-CH}_3$
067	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}=\text{CH}_2$
068	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}=\text{CH-CH}_3$
069	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-(CH}_3\text{)C}=\text{CH}_2$
070	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}=\text{CHCl}$
071	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
072	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH(CH}_3\text{)-C}\equiv\text{CH}$
073	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_3$
074	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
075	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-(CH}_2\text{)}_2\text{-CH}_3$
076	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH-(CH}_3\text{)}_2$
077	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-(CH}_2\text{)}_4\text{-CH}_3$
078	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-C}_3\text{H}_5\text{-cycl}$
079	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-C}_6\text{H}_{11}\text{-cycl}$
080	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-Ph}$
081	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-(4-Cl-Ph)}$
082	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-Ph}$
083	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-(4-Cl-Ph)}$
084	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_2\text{-O-Ph}$
085	H-	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_2\text{-O-CH}_3$
086	$\text{CH}_3^-$	$3-\text{CH}_3\text{-O-}$	H-	-H
087	$\text{CH}_3^-$	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_3$
088	$\text{CH}_3^-$	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CF}_3$
089	$\text{CH}_3^-$	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CHF}_2$
090	$\text{CH}_3^-$	$3-\text{CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$

091	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
092	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
093	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
094	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
095	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CHCl
096	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡CH
097	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH(CH <sub>3</sub> )-C≡CH
098	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
099	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
100	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
101	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
102	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>4</sub> -CH <sub>3</sub>
103	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
104	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>6</sub> H <sub>11</sub> -cycl
105	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -Ph
106	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -(4-Cl-Ph)
107	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-Ph
108	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(4-Cl-Ph)
109	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -O-Ph
110	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -O-CH <sub>3</sub>
111	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-H
112	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>3</sub>
113	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CF <sub>3</sub>
114	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CHF <sub>2</sub>
115	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
116	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
117	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
118	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
119	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
120	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CHCl
121	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡CH
122	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH(CH <sub>3</sub> )-C≡CH



123	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
124	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
125	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
126	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
127	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>4</sub> -CH <sub>3</sub>
128	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
129	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>6</sub> H <sub>11</sub> -cycl
130	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -Ph
131	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -(4-Cl-Ph)
132	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-Ph
133	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(4-Cl-Ph)
134	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -O-Ph
135	CH <sub>3</sub> -CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -O-CH <sub>3</sub>
136	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-H
137	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>3</sub>
138	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CF <sub>3</sub>
139	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CHF <sub>2</sub>
140	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>3</sub>
141	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>
142	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH <sub>2</sub>
143	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CH-CH <sub>3</sub>
144	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -(CH <sub>3</sub> )C=CH <sub>2</sub>
145	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -CH=CHCl
146	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡CH
147	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH(CH <sub>3</sub> )-C≡CH
148	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>3</sub>
149	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
150	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub>
151	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-CH-(CH <sub>3</sub> ) <sub>2</sub>
152	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-(CH <sub>2</sub> ) <sub>4</sub> -CH <sub>3</sub>
153	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>3</sub> H <sub>5</sub> -cycl
154	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	H-	-CH <sub>2</sub> -C≡C-C <sub>6</sub> H <sub>11</sub> -cycl

155	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-Ph}$
156	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-(4-Cl-Ph)}$
157	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-Ph}$
158	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-(4-Cl-Ph)}$
159	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_2\text{-O-Ph}$
160	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_2\text{-O-CH}_3$
161	$\text{H}_3\text{CC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	-H
162	$\text{H}_3\text{CC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
163	$\text{H}_3\text{CC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
164	$\text{H}_3\text{CC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
165	$\text{H}_3\text{CC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
166	$\text{H}_2\text{C}=\text{CHCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	-H
167	$\text{H}_2\text{C}=\text{CHCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
168	$\text{H}_2\text{C}=\text{CHCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
169	$\text{H}_2\text{C}=\text{CHCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
170	$\text{H}_2\text{C}=\text{CHCH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
171	$\text{CH}_2\text{F-}$	$3\text{-CH}_3\text{-O-}$	H-	-H
172	$\text{CH}_2\text{F-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
173	$\text{CH}_2\text{F-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
174	$\text{CH}_2\text{F-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
175	$\text{CH}_2\text{F-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
176	$\text{CHF}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	-H
177	$\text{CHF}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
178	$\text{CHF}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
179	$\text{CHF}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
180	$\text{CHF}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
181	$\text{CF}_3^-$	$3\text{-CH}_3\text{-O-}$	H-	-H
182	$\text{CF}_3^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
183	$\text{CF}_3^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
184	$\text{CF}_3^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
185	$\text{CF}_3^-$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
186	$\text{CF}_3\text{-CH}_2^-$	$3\text{-CH}_3\text{-O-}$	H-	-H

187	$\text{CF}_3\text{-CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
188	$\text{CF}_3\text{-CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
189	$\text{CF}_3\text{-CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
190	$\text{CF}_3\text{-CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
191	$\text{CH}_3\text{CH}_2\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	-H
192	$\text{CH}_3\text{CH}_2\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
193	$\text{CH}_3\text{CH}_2\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
194	$\text{CH}_3\text{CH}_2\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
195	$\text{CH}_3\text{CH}_2\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
196	$(\text{CH}_3)_2\text{CH-}$	$3\text{-CH}_3\text{-O-}$	H-	-H
197	$(\text{CH}_3)_2\text{CH-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_3$
198	$(\text{CH}_3)_2\text{CH-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
199	$(\text{CH}_3)_2\text{CH-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
200	$(\text{CH}_3)_2\text{CH-}$	$3\text{-CH}_3\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
201	H-	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	-H
202	H-	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_3$
203	H-	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
204	H-	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
205	H-	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
206	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	-H
207	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_3$
208	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
209	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
210	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
211	$\text{CH}_3\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	-H
212	$\text{CH}_3\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_3$
213	$\text{CH}_3\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$
214	$\text{CH}_3\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
215	$\text{CH}_3\text{CH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
216	$\text{HC}\equiv\text{CCH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	-H
217	$\text{HC}\equiv\text{CCH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_3$
218	$\text{HC}\equiv\text{CCH}_2\text{-}$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-CH}_3$

219	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
220	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-CH}_2\text{-O-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
221	H-	$3\text{-CH}_3\text{-}$	H-	-H
222	H-	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_3$
223	H-	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-CH}_3$
224	H-	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
225	H-	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
226	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-}$	H-	-H
227	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_3$
228	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-CH}_3$
229	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
230	$\text{CH}_3\text{-}$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
231	$\text{CH}_3\text{CH}_2^-$	$3\text{-CH}_3\text{-}$	H-	-H
232	$\text{CH}_3\text{CH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_3$
233	$\text{CH}_3\text{CH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-CH}_3$
234	$\text{CH}_3\text{CH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
235	$\text{CH}_3\text{CH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
236	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-}$	H-	-H
237	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_3$
238	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-CH}_3$
239	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
240	$\text{HC}\equiv\text{CCH}_2^-$	$3\text{-CH}_3\text{-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
241	H-	$3\text{-Cl-}$	H-	-H
242	H-	$3\text{-Cl-}$	H-	$-\text{CH}_3$
243	H-	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-CH}_3$
244	H-	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
245	H-	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$
246	$\text{CH}_3\text{-}$	$3\text{-Cl-}$	H-	-H
247	$\text{CH}_3\text{-}$	$3\text{-Cl-}$	H-	$-\text{CH}_3$
248	$\text{CH}_3\text{-}$	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-CH}_3$
249	$\text{CH}_3\text{-}$	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{CH}$
250	$\text{CH}_3\text{-}$	$3\text{-Cl-}$	H-	$-\text{CH}_2\text{-C}\equiv\text{C-CH}_2\text{-CH}_3$

251	$\text{CH}_3\text{CH}_2^-$	3-Cl-	H-	-H
252	$\text{CH}_3\text{CH}_2^-$	3-Cl-	H-	$-\text{CH}_3$
253	$\text{CH}_3\text{CH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{CH}_3$
254	$\text{CH}_3\text{CH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
255	$\text{CH}_3\text{CH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
256	$\text{HC}\equiv\text{CCH}_2^-$	3-Cl-	H-	-H
257	$\text{HC}\equiv\text{CCH}_2^-$	3-Cl-	H-	$-\text{CH}_3$
258	$\text{HC}\equiv\text{CCH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{CH}_3$
259	$\text{HC}\equiv\text{CCH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
260	$\text{HC}\equiv\text{CCH}_2^-$	3-Cl-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
261	H-	3-Br-	H-	-H
262	H-	3-Br-	H-	$-\text{CH}_3$
263	H-	3-Br-	H-	$-\text{CH}_2-\text{CH}_3$
264	H-	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
265	H-	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
266	$\text{CH}_3^-$	3-Br-	H-	-H
267	$\text{CH}_3^-$	3-Br-	H-	$-\text{CH}_3$
268	$\text{CH}_3^-$	3-Br-	H-	$-\text{CH}_2-\text{CH}_3$
269	$\text{CH}_3^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
270	$\text{CH}_3^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
271	$\text{CH}_3\text{CH}_2^-$	3-Br-	H-	-H
272	$\text{CH}_3\text{CH}_2^-$	3-Br-	H-	$-\text{CH}_3$
273	$\text{CH}_3\text{CH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{CH}_3$
274	$\text{CH}_3\text{CH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
275	$\text{CH}_3\text{CH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
276	$\text{HC}\equiv\text{CCH}_2^-$	3-Br-	H-	-H
277	$\text{HC}\equiv\text{CCH}_2^-$	3-Br-	H-	$-\text{CH}_3$
278	$\text{HC}\equiv\text{CCH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{CH}_3$
279	$\text{HC}\equiv\text{CCH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{CH}$
280	$\text{HC}\equiv\text{CCH}_2^-$	3-Br-	H-	$-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
281	H-	3- $\text{CH}_3\text{-O-}$	5- $\text{CH}_3\text{-O-}$	-H
282	H-	3- $\text{CH}_3\text{-O-}$	5- $\text{CH}_3\text{-O-}$	$-\text{CH}_3$

283	H-	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -CH <sub>3</sub>
284	H-	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡CH
285	H-	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
286	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-H
287	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>3</sub>
288	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -CH <sub>3</sub>
289	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡CH
290	CH <sub>3</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
291	CH <sub>3</sub> CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-H
292	CH <sub>3</sub> CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>3</sub>
293	CH <sub>3</sub> CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -CH <sub>3</sub>
294	CH <sub>3</sub> CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡CH
295	CH <sub>3</sub> CH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>
296	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-H
297	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>3</sub>
298	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -CH <sub>3</sub>
299	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡CH
300	HC≡CCH <sub>2</sub> -	3-CH <sub>3</sub> -O-	5-CH <sub>3</sub> -O-	-CH <sub>2</sub> -C≡C-CH <sub>2</sub> -CH <sub>3</sub>

Formulations may be prepared analogously to those described in, for example, WO 95/30651.

### Biological Examples

#### D-1: Action against *Plasmopara viticola* (downy mildew) on vines

5 week old grape seedlings cv. Gutedel are treated with the formulated test compound in a spray chamber. One day after application grape plants are inoculated by spraying a sporangia suspension ( $4 \times 10^4$  sporangia/ml) on the lower leaf side of the test plants. After an incubation period of 6 days at +21°C and 95% r. h. in a greenhouse the disease incidence is assessed.

Compounds of Tables 1 to 44 exhibit a good fungicidal action against *Plasmopara viticola* on vines. Compounds 1.137, 5.137, 5.149, 6.071, 6.146, 7.137, 8.074, 8.146, 9.137, 10.062 and 10.146 at 200 ppm inhibit fungal infestation in this test to at least 80%, while

under the same conditions untreated control plants are infected by the phytopathogenic fungi to over 80%.

D-2: Action against Phytophthora (late blight) on tomato plants

3 week old tomato plants cv. Roter Gnom are treated with the formulated test compound in

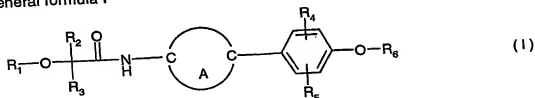
a spray chamber. Two day after application the plants are inoculated by spraying a sporangia suspension ( $2 \times 10^4$  sporangia/ml) on the test plants. After an incubation period of 4 days at  $+18^\circ\text{C}$  and 95% r. h. in a growth chamber the disease incidence is assessed. Compounds of Tables 1 to 44 exhibit a long-lasting effect against fungus infestation. Compounds 1.137, 5.137, 5.140, 5.149, 6.071, 6.146, 7.137, 8.062, 8.074, 8.146, 9.137, 10.062 and 10.146 at 200 ppm inhibit fungal infestation in this test to at least 80%, while under the same conditions untreated control plants are infected by the phytopathogenic fungi to over 80%.

D-3 : Action against Phytophthora (late blight) on potato plants

5 week old potato plants cv. Bintje are treated with the formulated test compound in a spray chamber. Two day after application the plants are inoculated by spraying a sporangia suspension ( $14 \times 10^4$  sporangia/ml) on the test plants. After an incubation period of 4 days at  $+18^\circ\text{C}$  and 95% r. h. in a growth chamber the disease incidence is assessed. Fungal infestation is effectively controlled with compounds of Tables 1 to 44. Compounds 1.137, 5.149, 6.146, 8.074, 8.146 and 10.062 at 200 ppm inhibit fungal infestation in this test to at least 80%, while under the same conditions untreated control plants are infected by the phytopathogenic fungi to over 80%.

What is claimed is:

1. N-Bisaryl- and N-aryl- cycloalkylidenyl- $\alpha$ -hydroxy- and  $\alpha$ -alkoxy acetic acid amides of the general formula I



-- including the optical isomers thereof and mixtures of such isomers, wherein

R<sub>1</sub> is hydrogen, C<sub>1</sub>-C<sub>12</sub>alkyl; C<sub>2</sub>-C<sub>12</sub>alkenyl; C<sub>2</sub>-C<sub>12</sub>alkynyl; C<sub>1</sub>-C<sub>12</sub>haloalkyl;

R<sub>2</sub> is hydrogen; optionally substituted alkyl; optionally substituted alkenyl or optionally substituted alkynyl;

R<sub>3</sub> is optionally substituted aryl or optionally substituted heteroaryl;

A is optionally substituted saturated or unsaturated C<sub>3</sub>-C<sub>8</sub>-cycloalkylidene, optionally substituted phenylidene or optionally substituted saturated or unsaturated heterocyclylidene bridge,

R<sub>4</sub> and R<sub>5</sub> are each independently hydrogen or an organic radical, and

R<sub>6</sub> is hydrogen; tri-C<sub>1</sub>-C<sub>4</sub>alkyl-silyl; di-C<sub>1</sub>-C<sub>4</sub>alkyl-phenylsilyl; C<sub>1</sub>-C<sub>4</sub>alkyl-diphenylsilyl; tri-phenylsilyl; optionally substituted alkyl; optionally substituted alkenyl or optionally substituted alkynyl.

2. A compound according to claim 1 wherein R<sub>1</sub> is hydrogen; C<sub>1</sub>-C<sub>12</sub>alkyl; C<sub>2</sub>-C<sub>12</sub>alkenyl; C<sub>2</sub>-C<sub>12</sub>alkynyl or C<sub>1</sub>-C<sub>12</sub>haloalkyl; and R<sub>1</sub> is hydrogen; C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>2</sub>-C<sub>12</sub>alkenyl; or C<sub>2</sub>-C<sub>12</sub>alkynyl; and R<sub>2</sub> is hydrogen; C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>4</sub>haloalkyl; C<sub>2</sub>-C<sub>8</sub>alkenyl or C<sub>2</sub>-C<sub>8</sub>alkynyl; and R<sub>3</sub> is aryl or heteroaryl, each optionally substituted with substituents selected from the group comprising alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl-alkyl, phenyl and phenylalkyl, where all these groups may be substituted with one or more halogen atoms; alkoxy; alkenyloxy; alkynyloxy; alkoxy-alkyl; haloalkyl; alkylthio; haloalkylthio; alkylsulfonyl; formyl; alkanoyl; hydroxy; cyano; nitro; amino; alkylamino; dialkylamino; carboxyl; alkoxycarbonyl; alkenyloxycarbonyl and alkynyloxycarbonyl; and A is optionally substituted saturated or unsaturated carbocycle or heterocycle linked to the remainder of the molecule by vicinal ring member carbon atoms; and R<sub>4</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>2</sub>-C<sub>8</sub>alkenyl; C<sub>2</sub>-C<sub>8</sub>alkynyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkylthio; C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl; C<sub>1</sub>-C<sub>8</sub>alkoxy;



$C_3-C_8$ alkenyloxy;  $C_3-C_8$ alkynyloxy;  $C_3-C_8$ cycloalkoxy;  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl;  $C_1-C_8$ alkoxycarbonyl;  $C_3-C_8$ alkenyloxy carbonyl;  $C_3-C_8$ alkynyloxy carbonyl;  $C_1-C_8$ alkanoyl;  $C_1-C_8$ dialkylamino or  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and  $R_5$  is hydrogen;  $C_1-C_8$ alkyl;  $C_2-C_8$ alkenyl;  $C_2-C_8$ alkynyl;  $C_3-C_8$ cycloalkyl;  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl;  $C_1-C_8$ alkylthio;  $C_1-C_8$ alkylsulfonyl;  $C_1-C_8$ alkoxy;  $C_3-C_8$ alkenyloxy;  $C_3-C_8$ alkynyloxy;  $C_3-C_8$ cycloalkoxy;  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl;  $C_1-C_8$ alkoxycarbonyl;  $C_3-C_8$ alkenyloxy carbonyl;  $C_3-C_8$ alkynyloxy carbonyl;  $C_1-C_8$ alkanoyl;  $C_1-C_8$ dialkylamino or  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and  $R_6$  is hydrogen;  $C_1-C_{10}$ alkyl;  $C_3-C_{10}$ alkenyl;  $C_3-C_{10}$ alkynyl;  $C_1-C_{10}$ haloalkyl;  $C_3-C_{10}$ haloalkenyl;  $C_3-C_{10}$ haloalkynyl; benzyl substituted with  $C_1-C_8$ alkyl,  $C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkoxy,  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkenyloxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkynyloxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated, carboxyl; formyl; halogen; nitro; cyano; hydroxy; or amino; or is a group  $-CR_7R_8C\equiv C-B$  wherein  $R_7$  and  $R_8$  are independently hydrogen or  $C_1-C_4$ alkyl; and  $B$  is either  $C_1-C_8$ alkyl or  $C_3-C_8$ cycloalkyl; phenyl or phenyl substituted by  $C_1-C_8$ alkyl,  $C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkoxy,  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or is a group  $-CR_7R_8CR_{10}-X-B$  wherein  $R_7$ ,  $R_8$ ,  $R_9$  and  $R_{10}$  are independently hydrogen or  $C_1-C_4$ alkyl;  $X$  is  $-O-$ ,  $-S-$  or  $-NR_{13}-$  where  $R_{13}$  is hydrogen or  $C_1-C_4$ alkyl; and  $B$  is either  $C_3-C_8$ cycloalkyl; phenyl or phenyl substituted by  $C_1-C_8$ alkyl,  $C_2-C_8$ alkenyl,  $C_2-C_8$ alkynyl,  $C_3-C_8$ cycloalkyl,  $C_3-C_8$ cycloalkyl- $C_1-C_4$ alkyl,  $C_1-C_8$ alkylthio,  $C_1-C_8$ alkylsulfonyl,  $C_1-C_8$ alkoxy,  $C_3-C_8$ alkenyloxy,  $C_3-C_8$ alkynyloxy,  $C_3-C_8$ cycloalkoxy,  $C_1-C_8$ alkoxy- $C_1-C_4$ alkyl,  $C_1-C_8$ alkoxycarbonyl,  $C_3-C_8$ alkenyloxy carbonyl,  $C_3-C_8$ alkynyloxy carbonyl,  $C_1-C_8$ alkanoyl,  $C_1-C_8$ dialkylamino,  $C_1-C_8$ alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino.

3. A compound according to claims 1 or 2 wherein R<sub>1</sub> is hydrogen; C<sub>1</sub>-C<sub>12</sub>alkyl; C<sub>2</sub>-C<sub>12</sub>alkenyl; C<sub>2</sub>-C<sub>12</sub>alkynyl or C<sub>1</sub>-C<sub>12</sub>haloalkyl; and R<sub>2</sub> is hydrogen and R<sub>3</sub> is phenyl; naphthyl or heteroaryl formed by 1 or 2 five- or six-membered rings containing 1 to 4 identical or different heteroatoms selected from oxygen, nitrogen or sulfur, wherein each aromatic rings is optionally mono- or poly-substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>8</sub>alkenyloxy, C<sub>3</sub>-C<sub>8</sub>alkynyloxy, C<sub>3</sub>-C<sub>8</sub>cycloalkyloxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>3</sub>-C<sub>8</sub>alkenylloxycarbonyl, C<sub>3</sub>-C<sub>8</sub>alkynylloxycarbonyl, C<sub>1</sub>-C<sub>8</sub>dialkylamino, C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated, or with halogen, nitro, cyano, hydroxy or amino; and A is optionally substituted saturated or unsaturated carbocycle or heterocycle linked to the remainder of the molecule by vicinal ring member carbon atoms; and R<sub>4</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>2</sub>-C<sub>8</sub>alkenyl; C<sub>2</sub>-C<sub>8</sub>alkynyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkylthio; C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl; C<sub>1</sub>-C<sub>8</sub>alkoxy; C<sub>3</sub>-C<sub>8</sub>alkenyloxy; C<sub>3</sub>-C<sub>8</sub>alkynyloxy; C<sub>3</sub>-C<sub>8</sub>cycloalkoxy; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl; C<sub>3</sub>-C<sub>8</sub>alkenylloxycarbonyl; C<sub>3</sub>-C<sub>8</sub>alkynylloxycarbonyl; C<sub>1</sub>-C<sub>8</sub>alkanoyl; C<sub>1</sub>-C<sub>8</sub>dialkylamino or C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and R<sub>5</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>2</sub>-C<sub>8</sub>alkenyl; C<sub>2</sub>-C<sub>8</sub>alkynyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl; C<sub>3</sub>-C<sub>8</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkylthio; C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl; C<sub>1</sub>-C<sub>8</sub>alkoxy; C<sub>3</sub>-C<sub>8</sub>alkenyloxy; C<sub>3</sub>-C<sub>8</sub>alkynyloxy; C<sub>3</sub>-C<sub>8</sub>cycloalkoxy; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl; C<sub>3</sub>-C<sub>8</sub>alkenylloxycarbonyl; C<sub>3</sub>-C<sub>8</sub>alkynylloxycarbonyl; C<sub>1</sub>-C<sub>8</sub>alkanoyl; C<sub>1</sub>-C<sub>8</sub>dialkylamino or C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; or is carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; and R<sub>6</sub> is hydrogen; C<sub>1</sub>-C<sub>10</sub>alkyl; C<sub>3</sub>-C<sub>10</sub>alkenyl; C<sub>3</sub>-C<sub>10</sub>alkynyl; C<sub>1</sub>-C<sub>10</sub>haloalkyl; C<sub>3</sub>-C<sub>10</sub>haloalkenyl; C<sub>3</sub>-C<sub>10</sub>haloalkynyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>8</sub>alkenyloxy, C<sub>3</sub>-C<sub>8</sub>alkynyloxy, C<sub>3</sub>-C<sub>8</sub>cycloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkenylloxycarbonyl, C<sub>3</sub>-C<sub>8</sub>alkynylloxycarbonyl, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>1</sub>-C<sub>8</sub>dialkylamino, C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated, carboxyl; formyl; halogen; nitro; cyano; hydroxy; or amino; a group -CR<sub>7</sub>R<sub>8</sub>C≡C-B wherein R<sub>7</sub> and R<sub>8</sub> are independently hydrogen or C<sub>1</sub>-C<sub>4</sub>alkyl; and B is either C<sub>1</sub>-C<sub>8</sub>alkyl or C<sub>3</sub>-C<sub>8</sub>cycloalkyl; phenyl or phenyl substituted by C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl-

C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>8</sub>alkenyloxy, C<sub>3</sub>-C<sub>8</sub>alkynyloxy, C<sub>3</sub>-C<sub>8</sub>cycloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>3</sub>-C<sub>8</sub>alkenyloxy carbonyl, C<sub>3</sub>-C<sub>8</sub>alkynyloxy carbonyl, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>1</sub>-C<sub>8</sub>dialkylamino, C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; ~~carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino; or a group -CR<sub>7</sub>R<sub>8</sub>=CR<sub>9</sub>R<sub>10</sub>-X-B~~

wherein R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub> and R<sub>10</sub> are independently hydrogen or C<sub>1</sub>-C<sub>4</sub>alkyl; X is -O-, -S- or -NR<sub>13</sub>- where R<sub>13</sub> is hydrogen or C<sub>1</sub>-C<sub>4</sub>alkyl; and B is either C<sub>3</sub>-C<sub>8</sub>cycloalkyl; phenyl or phenyl substituted by C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>8</sub>alkenyloxy, C<sub>3</sub>-C<sub>8</sub>alkynyloxy, C<sub>3</sub>-C<sub>8</sub>cycloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>3</sub>-C<sub>8</sub>alkenyloxy carbonyl, C<sub>3</sub>-C<sub>8</sub>alkynyloxy carbonyl, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>1</sub>-C<sub>8</sub>dialkylamino, C<sub>1</sub>-C<sub>8</sub>alkylamino, wherein in turn the alkyl, alkenyl, alkynyl or cycloalkyl moieties may be partially or fully halogenated; carboxyl; formyl; halogen; nitro; cyano; hydroxy or amino

4. A compound according to any of claims 1 to 3 wherein R<sub>1</sub> is hydrogen, C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>2</sub>-C<sub>12</sub>alkenyl or C<sub>1</sub>-C<sub>12</sub>haloalkyl; and R<sub>2</sub> is hydrogen and R<sub>3</sub> is phenyl, naphthyl, furyl, thienyl, imidazolyl, thiazolyl, oxazolyl, pyridyl, pyrimidinyl, benzothienyl, benzothiazolyl, chinolinyl, pyrazolyl, indolyl, benzimidazolyl or pyrrolyl, wherein each of the aromatic rings is optionally substituted with 1 to 3 substituents selected from C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>8</sub>haloalkyl, C<sub>1</sub>-C<sub>8</sub>haloalkoxy, C<sub>1</sub>-C<sub>8</sub>haloalkylthio, halogen, nitro or cyano; and A is optionally substituted 1,2-phenylene; optionally substituted 2,3-pyridinylidene; optionally substituted 3,4-pyridinylidene; optionally substituted 2,3-thiophenylidene; optionally substituted 4,5-thiazolylidene; optionally substituted 1,2-cyclohexylidene; optionally substituted 1,2-cyclopentylidene; optionally substituted 3,4-tetrahydrofuranlylidene or optionally substituted 1,2-cyclopropylidene; and R<sub>4</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>haloalkyl; C<sub>2</sub>-C<sub>8</sub>alkenyl; C<sub>2</sub>-C<sub>8</sub>alkynyl; C<sub>1</sub>-C<sub>8</sub>alkylthio; C<sub>1</sub>-C<sub>8</sub>haloalkylthio; C<sub>1</sub>-C<sub>8</sub>alkoxy; C<sub>1</sub>-C<sub>8</sub>haloalkoxy; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>8</sub>alkoxycarbonyl; C<sub>1</sub>-C<sub>8</sub>alkanoyl; formyl; halogen; nitro; cyano or hydroxy; and R<sub>5</sub> is hydrogen; C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>1</sub>-C<sub>4</sub>haloalkyl; C<sub>1</sub>-C<sub>4</sub>alkoxy; C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl; C<sub>1</sub>-C<sub>4</sub>alkanoyl; formyl; halogen; cyano or hydroxy; and R<sub>6</sub> is hydrogen; C<sub>1</sub>-C<sub>8</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyl; C<sub>3</sub>-C<sub>8</sub>alkynyl; C<sub>1</sub>-C<sub>8</sub>alkoxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkenyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; C<sub>3</sub>-C<sub>8</sub>alkynyloxy-C<sub>1</sub>-C<sub>4</sub>alkyl; benzyl; benzyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>1</sub>-C<sub>8</sub>haloalkyl, halogen, nitro or cyano; a group -CH<sub>2</sub>-C≡C-B where B is either C<sub>1</sub>-C<sub>8</sub>alkyl or C<sub>3</sub>-C<sub>8</sub>cycloalkyl, phenyl or phenyl substituted with C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>1</sub>-C<sub>8</sub>alkoxy,

$C_1-C_6$ haloalkyl, halogen, nitro or cyano; or a group  $-CH_2-CH_2-O-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_6$ -alkyl,  $C_1-C_6$ -alkylthio,  $C_1-C_6$ -alkoxy,  $C_1-C_6$ -haloalkyl, halogen, nitro or cyano.

5. A compound according to any of claims 1 to 4 wherein  $R_1$  is hydrogen,  $C_1-C_4$ alkyl, or  $C_2-C_6$ alkenyl; and  $R_2$  is hydrogen and  $R_3$  is phenyl or phenyl substituted with 1 to 3 substituents selected from  $C_1-C_6$ alkyl,  $C_2-C_6$ alkenyl,  $C_3-C_6$ cycloalkyl,  $C_1-C_6$ alkoxy,  $C_1-C_6$ alkylthio,  $C_1-C_6$ alkoxycarbonyl,  $C_1-C_6$ haloalkyl,  $C_1-C_6$ haloalkoxy,  $C_1-C_6$ haloalkylthio, halogen, nitro or cyano; and A is 1,2-phenylene; 2,3-pyridinylidene; 3,4-pyridinylidene or 2,3-thiophenylidene; each optionally substituted with halogen,  $C_1-C_6$ alkyl,  $C_1-C_6$ alkoxy,  $C_1-C_6$ haloalkyl,  $C_1-C_6$ alkoxycarbonyl, nitro or cyano; or is 1,2-cyclohexylidene; 1,2-cyclopentylidene; 3,4-tetrahydrofuranlydene or 1,2-cyclopropylidene, each optionally substituted with  $C_1-C_6$ -alkyl; and  $R_4$  is hydrogen;  $C_1-C_4$ alkyl;  $C_1-C_4$ alkoxy;  $C_1-C_4$ haloalkoxy or halogen; and  $R_5$  is hydrogen;  $C_1-C_6$ alkyl; halogen or cyano; and  $R_6$  is  $C_1-C_6$ alkyl;  $C_3-C_6$ alkenyl;  $C_3-C_6$ alkynyl;  $C_1-C_6$ alkoxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkenyl- $C_1-C_4$ alkyl;  $C_3-C_6$ alkynyl- $C_1-C_4$ alkyl; benzyl; benzyl substituted with  $C_1-C_4$ alkyl;  $C_1-C_6$ haloalkyl or halogen; a group  $-CH_2-C\equiv C-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_4$ alkyl or halogen, or a group  $-CH_2-CH_2-O-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_6$ alkyl or halogen.

6. A compound according to any of claims 1 to 5 wherein  $R_1$  is hydrogen or  $C_2-C_6$ alkenyl; and  $R_2$  is hydrogen and  $R_3$  is phenyl;  $C_1-C_4$ alkylphenyl or haloalkylphenyl; and A is 1,2-phenylene; 1,2-cyclohexylidene or 1,2-cyclopropylidene; and  $R_4$  is hydrogen; methoxy or ethoxy; and  $R_5$  is hydrogen; and  $R_6$  is  $C_1-C_6$ alkyl;  $C_3-C_6$ alkenyl;  $C_3-C_6$ alkynyl;  $C_1-C_6$ alkoxy- $C_1-C_4$ alkyl;  $C_3-C_6$ alkenyl- $C_1-C_4$ alkyl;  $C_3-C_6$ alkynyl- $C_1-C_4$ alkyl; benzyl; benzyl substituted with  $C_1-C_4$ alkyl,  $C_1-C_6$ haloalkyl or halogen; a group  $-CH_2-C\equiv C-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_4$ alkyl or halogen; or a group  $-CH_2-CH_2-O-B$  where B is either  $C_3-C_6$ cycloalkyl, phenyl or phenyl substituted with  $C_1-C_6$ alkyl or halogen.

7. A compound according to any one of claims 1 to 6 wherein  $R_1$  is hydrogen or propargyl; and  $R_2$  is hydrogen; and  $R_3$  is phenyl optionally substituted by one to two substituents selected from the group comprising methyl, ethyl, methoxy, fluoro, chloro, bromo, phenyl, trifluoromethyl, trifluoromethylthio or trifluoromethoxy; and A is 1,2-phenylene or 1,2-cyclohexylidene; and  $R_4$  is hydrogen or methoxy; and  $R_5$  is hydrogen;

and R<sub>6</sub> is selected from methyl, ethyl propyl, allyl, butenyl, propargyl, butynyl, pentynyl, cyclopropylpropargyl, phenylpropargyl, bromophenylpropargyl and chlorophenylpropargyl.

8. A compound according to any one of claims 1 to 7 wherein R<sub>1</sub> is propargyl; and R<sub>2</sub> is hydrogen; and R<sub>3</sub> is phenyl optionally substituted by one to two substituents selected from the group comprising fluoro, chloro and bromo, or is phenyl optionally substituted by one substituent selected from the group comprising methyl, ethyl, methoxy, phenyl, trifluoromethyl, trifluoromethylthio or trifluoromethoxy; and A is 1,2-phenylene or 1,2-cyclohexylidene; and R<sub>4</sub> is hydrogen or methoxy; and R<sub>5</sub> is hydrogen; and R<sub>6</sub> is selected from methyl, ethyl, propargyl, 3-butynyl and 3-pentynyl.

9. A compound according to claim 1 selected from the group comprising  
 N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-2-phenyl-acetamide,  
 2-(4-chlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,  
 2-(4-bromophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,  
 2-(3,4-dichlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-hydroxy-acetamide,  
 N-(3',4'-dimethoxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
 2-(4-chlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-(4-bromophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-(3,4-dichlorophenyl)-N-(3',4'-dimethoxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-phenyl-acetamide,  
 2-(4-chlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
 2-(4-bromophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
 2-(3,4-dichlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-acetamide,  
 N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
 2-(4-chlorophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-(4-bromophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-(3,4-dichlorophenyl)-N-(3'-methoxy-4'-prop-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-acetamide,  
 2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-phenyl-acetamide,  
 2-(4-chlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,  
 2-(4-bromophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,

2-(3,4-dichlorophenyl)-2-hydroxy-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-acetamide,  
N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(4-bromophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
2-(3,4-dichlorophenyl)-N-(3'-methoxy-4'-pent-2-ynyloxy-biphenyl-2-yl)-2-prop-2-ynyloxy-  
acetamide,  
N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-2-phenyl-acetamide,  
2-(4-chlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
2-(4-bromophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
2-(3,4-dichlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-hydroxy-acetamide,  
N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-acetamide,  
2-(4-chlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-  
acetamide,  
2-(4-bromophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-  
acetamide,  
2-(3,4-dichlorophenyl)-N-[*trans*-2-(3,4-dimethoxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-  
acetamide,  
2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-acetamide,  
2-(4-chlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-  
acetamide,  
2-(4-bromophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-  
acetamide,  
2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-  
cyclohexyl]-acetamide,  
N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-  
acetamide,  
2-(4-chlorophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-  
ynyloxy-acetamide,  
2-(4-bromophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-  
ynyloxy-acetamide,  
2-(3,4-dichlorophenyl)-N-[*trans*-2-(3-methoxy-4-prop-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-

ynyloxy-acetamide,

2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-acetamide,

2-(4-chlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(4-bromophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

2-(3,4-dichlorophenyl)-2-hydroxy-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-acetamide,

N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-phenyl-2-prop-2-ynyloxy-acetamide,

2-(4-chlorophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide,

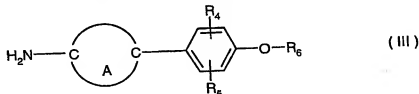
2-(4-bromophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide, and

2-(3,4-dichlorophenyl)-N-[*trans*-2-(3-methoxy-4-pent-2-ynyloxy-phenyl)-cyclohexyl]-2-prop-2-ynyloxy-acetamide.

10. A process for the preparation of a compound of formula I according to claim 1, which comprises reacting an  $\alpha$ -hydroxy- or  $\alpha$ -alkoxy acid of formula II



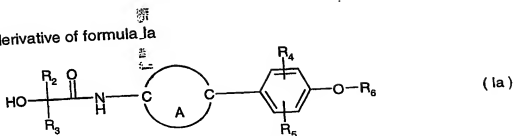
wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are as defined for formula I, or a carboxyl-activated derivative of the acid of formula II, is reacted with an amine of formula III wherein A, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are as defined for formula I, with an amine of formula III



wherein A, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are as defined for formula I.

11. A process for the preparation of a compound of formula I wherein R<sub>1</sub> is as defined in claim 1 with the exception of hydrogen, which process comprises reacting an  $\alpha$ -hydroxy

acid derivative of formula Ia



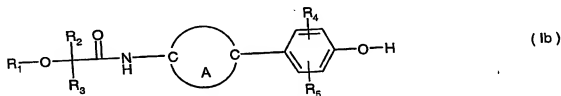
wherein A, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are as defined for formula I, with an alkyl-, alkenyl- or alkynylhalide of formula IV



( IV )

wherein R<sub>1</sub> is as defined for formula I, with the exception of hydrogen, and where X is a leaving group like a halide such as a chloride or bromide, or a sulfonic ester such as a tosylate, mesylate or triflate.

12. A process for the preparation of a compound of formula I wherein R<sub>6</sub> is as defined in claim 1 with the exception of hydrogen, which process comprises reacting a phenol of formula Ib



where A, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, and R<sub>5</sub> are as defined for formula I, with a compound of formula V



( V )

where R<sub>6</sub> is as defined for formula I but is not hydrogen and where Y is a leaving group like a halide such as a chloride or bromide or a sulfonic ester such as a tosylate, mesylate or triflate.

13. A composition for controlling and protecting against phytopathogenic microorganisms, comprising a compound of formula I according to claim 1 as active ingredient together with a suitable carrier.

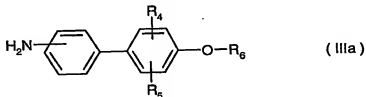
14. The use of a compound of formula I according to claim 1 in protecting plants against infestation by phytopathogenic microorganisms.

15. A method of controlling and preventing an infestation of crop plants by phytopatho-



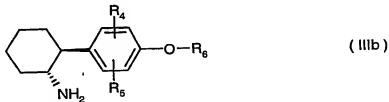
genic microorganisms, preferably fungal organisms, which comprises the application of a compound of formula I according to claim 1 as active ingredient to the plant, to parts of plants or to the locus thereof.

16. A compound of formula IIIa



wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I in claim 1.

17. A compound of formula IIIb



wherein  $R_4$ ,  $R_5$  and  $R_6$  are as defined for formula I in claim 1.

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